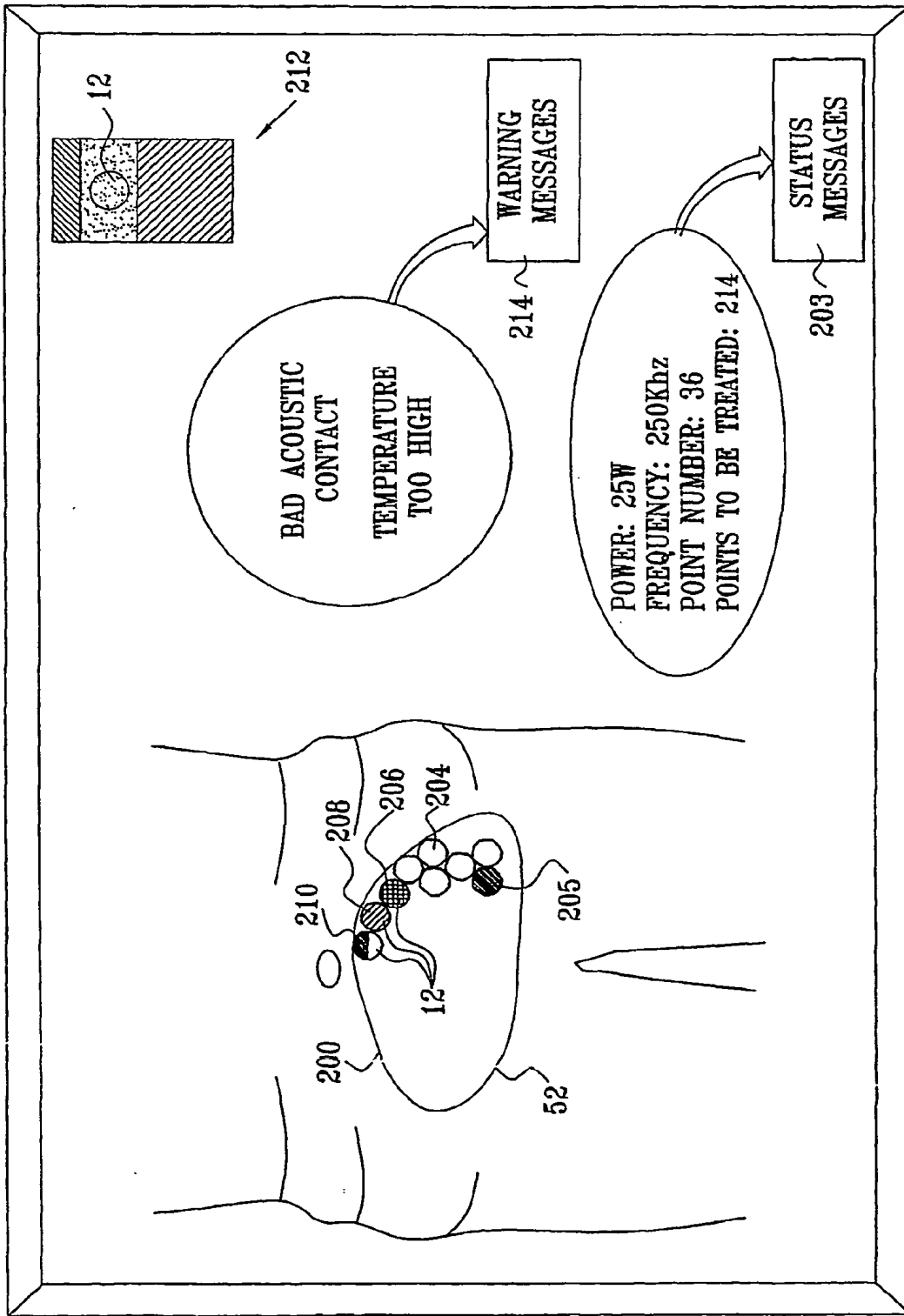


FIG. 3A



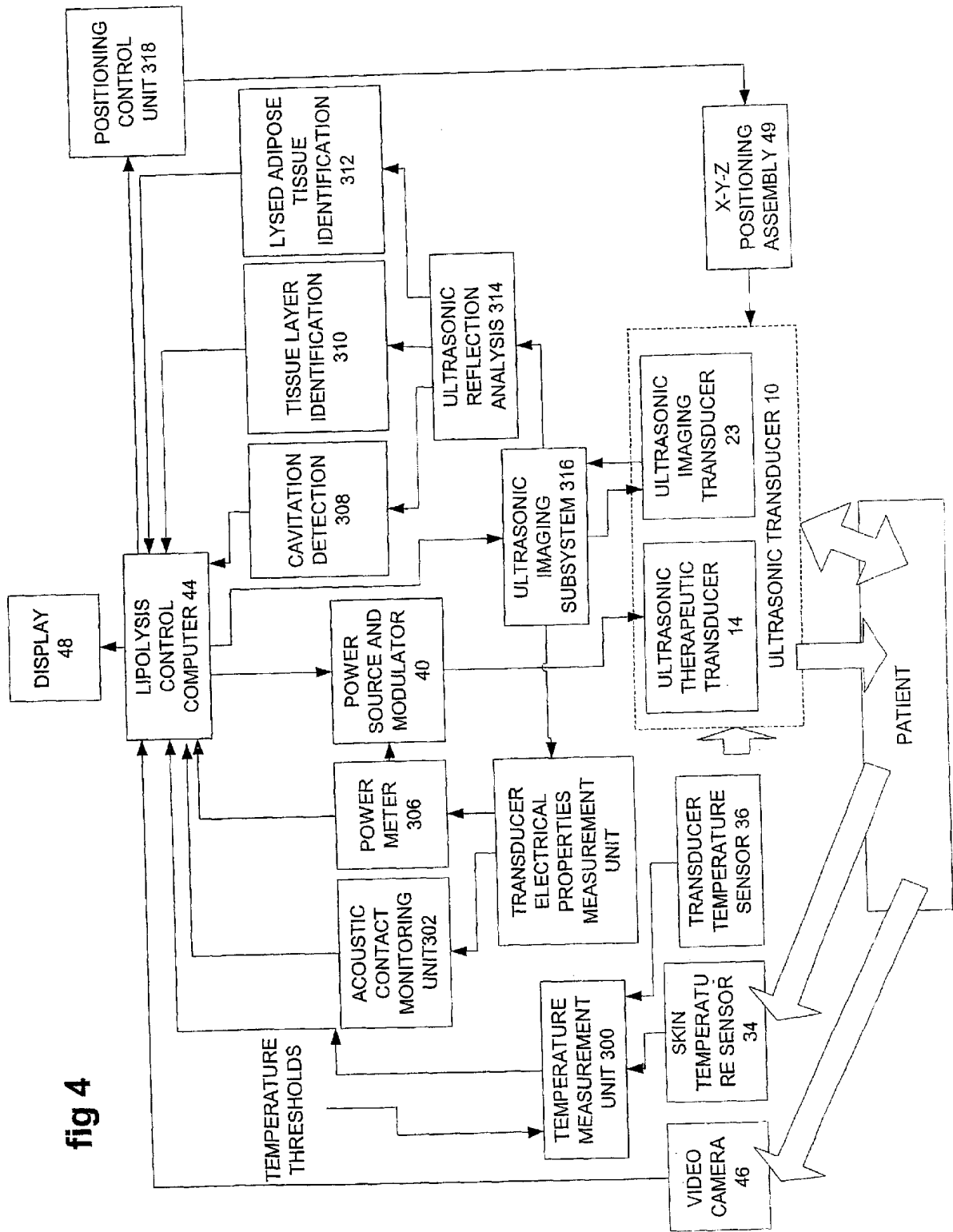


fig 4

fig 5A

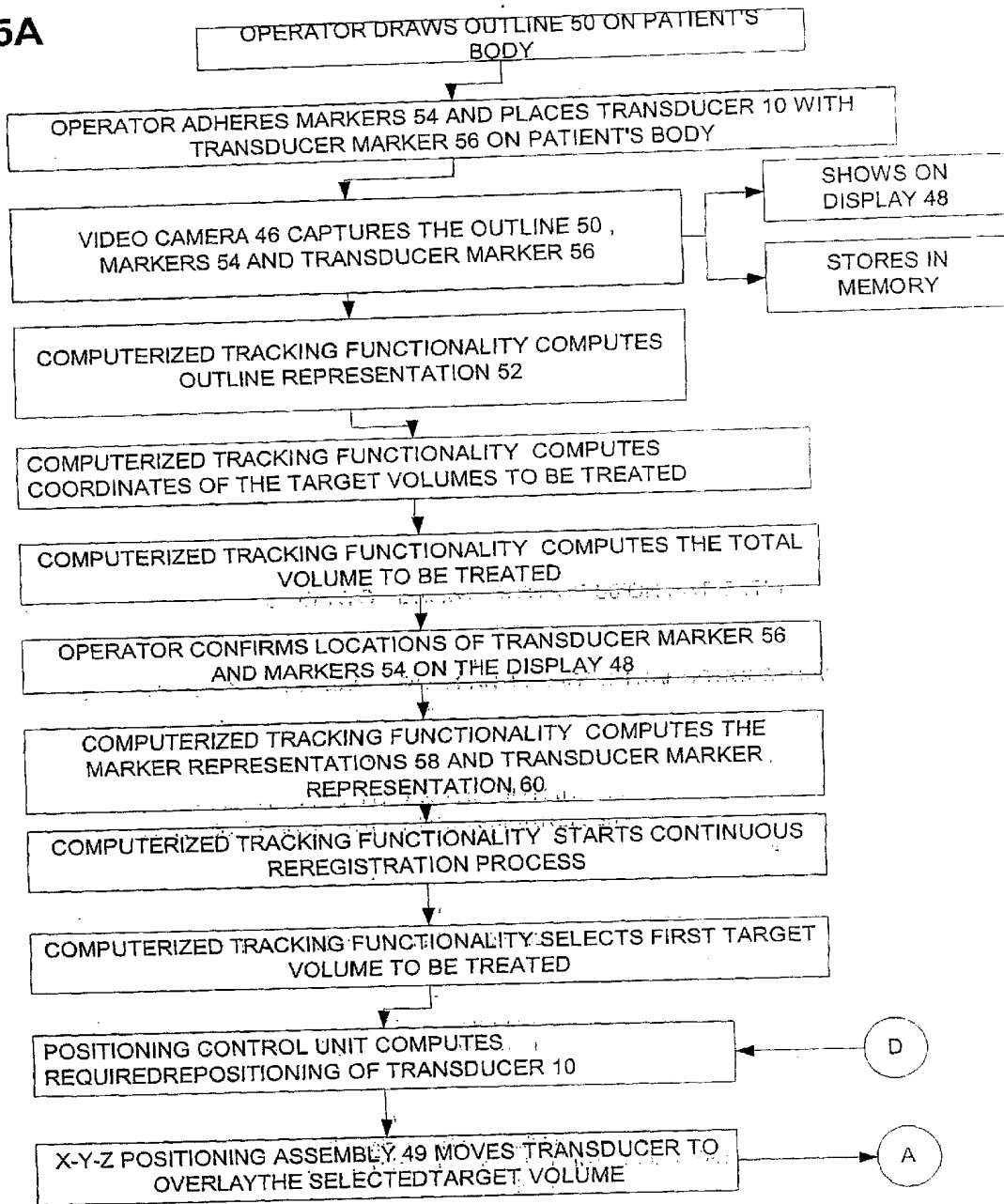
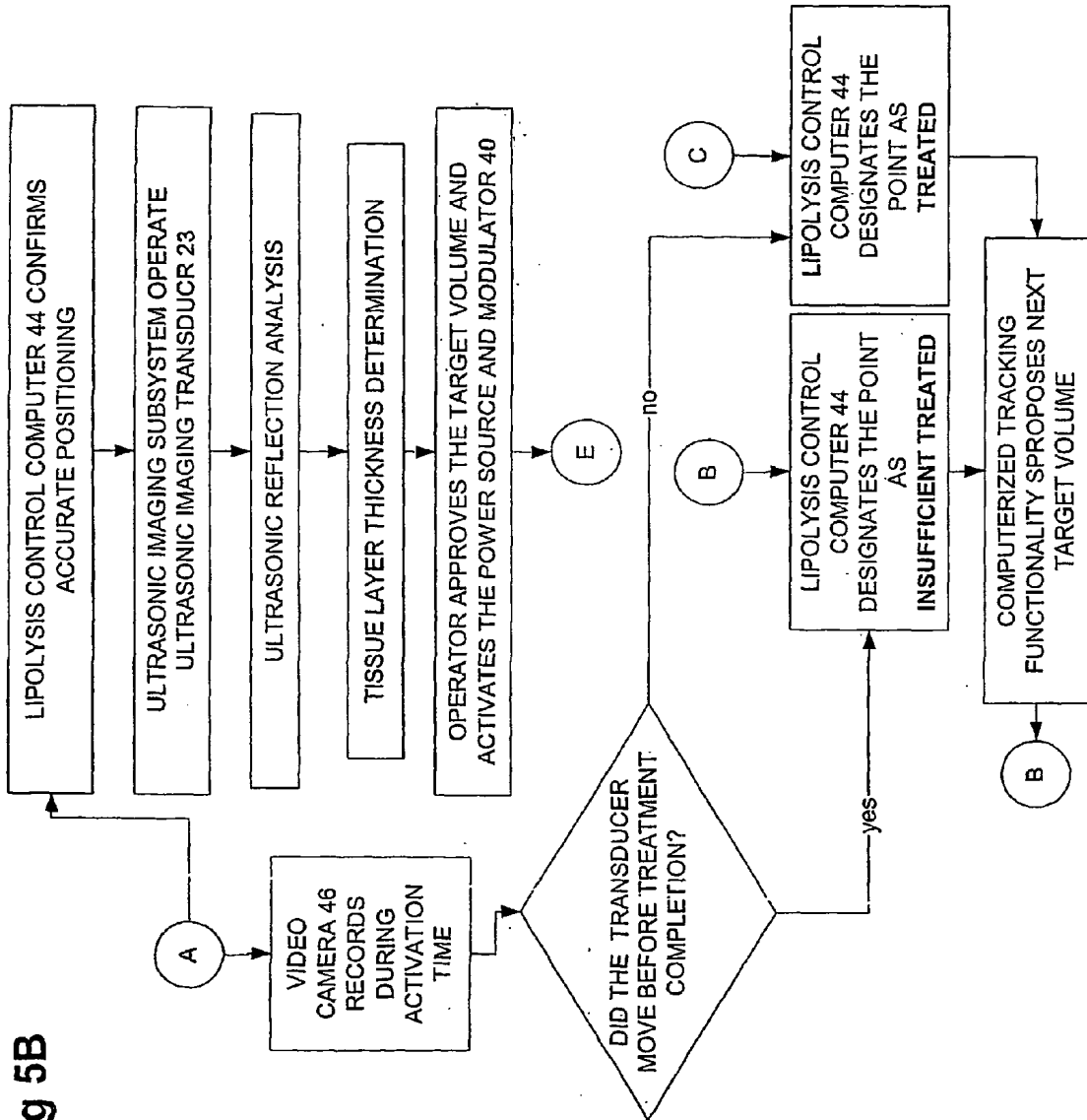


fig 5B



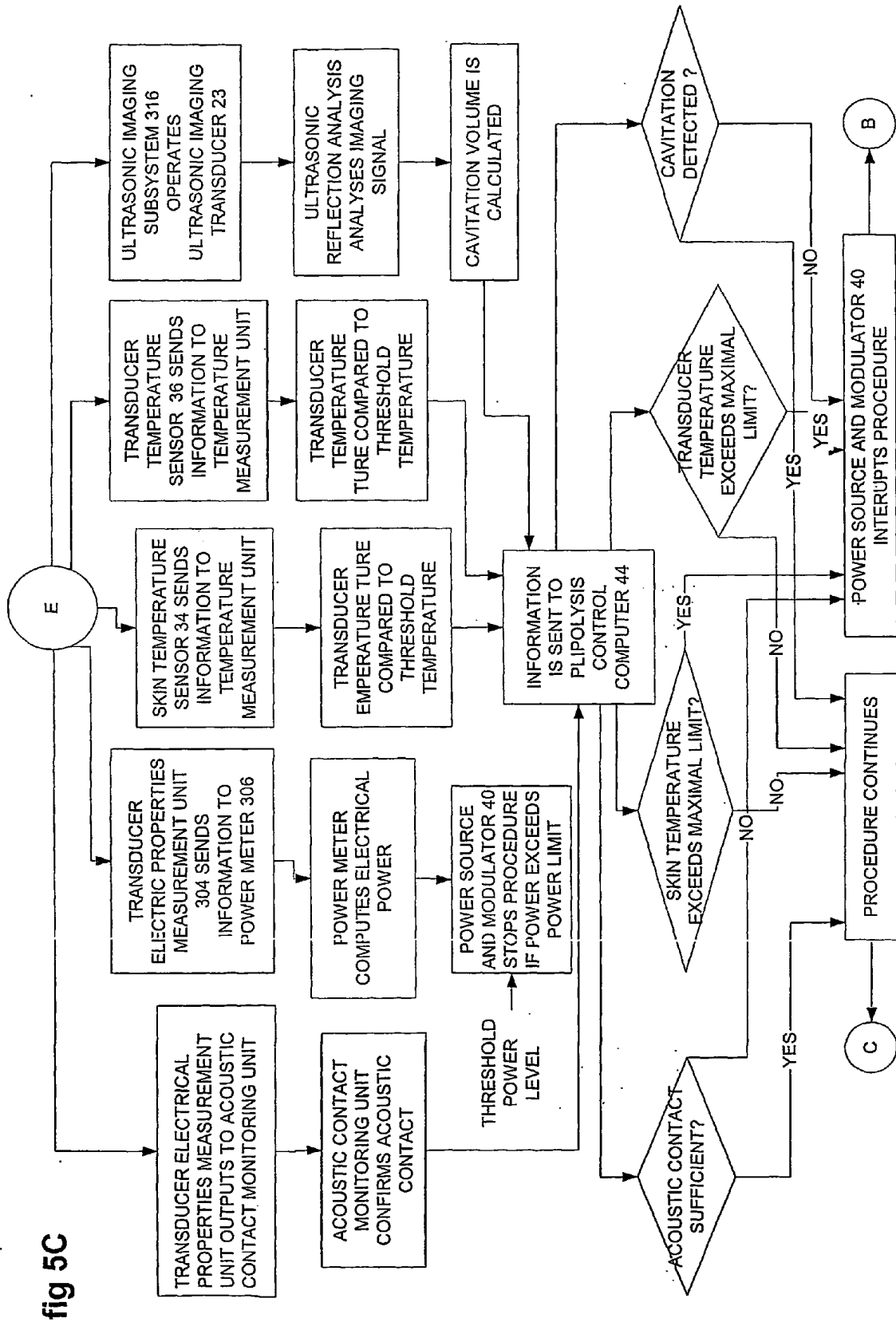


fig 5C

## NON-INVASIVE ULTRASONIC BODY CONTOURING

### REFERENCE TO CO-PENDING APPLICATIONS

[0001] Applicants hereby claim priority of U.S. patent application Ser. No. 09/752,530, filed Jan. 3, 2001, entitled "Method and Apparatus For Non-Invasive Body Contouring By Lysing Adipose Tissue" and U.S. patent application Ser. No. N/A filed Oct. 29, 2001, entitled "Non-Invasive Ultrasonic Body Contouring"

### FIELD OF THE INVENTION

[0002] The present invention relates to lipolysis generally and more particularly to ultrasonic lipolysis.

### BACKGROUND OF THE INVENTION

[0003] The following U.S. Patents are believed to represent the current state of the art:

[0004] U.S. Pat. Nos. 4,986,275; 5,143,063; 5,143,073; 5,209,221; 5,301,660; 5,431,621; 5,507,790; 5,526,815; 5,884,631; 6,039,048; 6,071,239; 6,113,558; 6,206,873

### SUMMARY OF THE INVENTION

[0005] The present invention seeks to provide improved apparatus and methodology for ultrasonic lipolysis.

[0006] There is thus provided in accordance with a preferred embodiment of the present invention a method for lysing adipose tissue including the steps of:

[0007] directing focused ultrasonic energy at a target volume in a region of a body containing adipose tissue; and

[0008] modulating the focused ultrasonic energy so as to selectively lyse the adipose tissue in the target volume and generally not lyse non-adipose tissue in the target volume.

[0009] Additionally in accordance with a preferred embodiment of the present invention, there is provided a method for lysing adipose tissue including the steps of:

[0010] generating, at a source outside a body, ultrasonic energy which selectively generally lyses adipose tissue and generally does not lyse non-adipose tissue; and

[0011] directing the ultrasonic energy, from the source outside the body, at a target volume of a body containing adipose tissue.

[0012] Further in accordance with a preferred embodiment of the present invention there is provided a method for lysing adipose tissue including the steps of

[0013] defining a region in a body at least partially by detecting spatial indications on the body; and

[0014] directing ultrasonic energy at a multiplicity of target volumes within the region, which target volumes contain adipose tissue, thereby to selectively lyse the adipose tissue in the target volumes and generally not lyse non-adipose tissue in the target volumes.

[0015] Additionally in accordance with a preferred embodiment of the present invention, there is provided a method for lysing adipose tissue including the steps of:

[0016] directing ultrasonic energy at a multiplicity of target volumes within the region, which target volumes contain adipose tissue, thereby to selectively lyse the adipose tissue in the target volumes and generally not lyse non-adipose tissue in the target volumes; and

[0017] computerized tracking of the multiplicity of target volumes notwithstanding movement of the body.

[0018] There is additionally provided in accordance with a preferred embodiment of the present invention apparatus for lysing adipose tissue including:

[0019] a focused ultrasonic energy director, directing focused ultrasonic energy at a target volume in a region of a body containing adipose tissue; and

[0020] a modulator, cooperating with the energy director to produce a focused ultrasonic energy so as to selectively lyse the adipose tissue in the target volume and generally not lyse non-adipose tissue in the target volume.

[0021] There is further provided in accordance with a preferred embodiment of the present invention apparatus for lysing adipose tissue including:

[0022] a source outside a body generating ultrasonic energy;

[0023] an ultrasonic energy director, which employs the ultrasonic energy to selectively generally lyse adipose tissue and generally not lyse non-adipose tissue in a target volume of a body containing adipose tissue.

[0024] There is additionally provided in accordance with a preferred embodiment of the present invention apparatus for lysing adipose tissue including the steps of:

[0025] a region definer, defining a region in a body at least partially by detecting spatial indications on the body; and

[0026] a director, directing ultrasonic energy at a multiplicity of target volumes within the region, which target volumes contain adipose tissue thereby to selectively lyse the adipose tissue in the target volumes and generally not lyse non-adipose tissue in the target volumes.

[0027] There is still further provided in accordance with a preferred embodiment of the present invention apparatus for lysing adipose tissue including:

[0028] a director, directing ultrasonic energy at a multiplicity of target volumes within the region, which target volumes contain adipose tissue, thereby to selectively lyse the adipose tissue in the target volumes and generally not lyse non-adipose tissue in the target volumes; and

[0029] computerized tracking functionality providing computerized tracking of the multiplicity of target volumes notwithstanding movement of the body.

[0030] Preferably, directing focused ultrasonic energy generally prevents lysis of tissue outside of the target volume.

[0031] In accordance with a preferred embodiment of the present invention, the method also includes ultrasonic imaging of the region at least partially concurrently with directing the focused ultrasonic energy at the target volume.

[0032] Preferably, directing includes positioning at least one ultrasonic transducer relative to the body in order to direct the focused ultrasonic energy at the target volume.

[0033] The directing may also include varying the focus of at least one ultrasonic transducer in order to direct the focused ultrasonic energy at the target volume. Varying the focus may change the volume of the target volume, and/or the distance of the target volume from the at least one ultrasonic transducer.

[0034] The directing may also include positioning at least one ultrasonic transducer relative to the body in order to direct the focused ultrasonic energy at the target volume.

[0035] The method preferably also includes sensing ultrasonic energy coupling to an external surface of the body adjacent the target volume.

[0036] The method preferably additionally includes sensing of cavitation at the target volume. Preferably, directing takes place from an ultrasonic transducer located outside of the body.

[0037] In accordance with a preferred embodiment of the present invention, the ultrasonic energy has a frequency in a range of 50 KHz-1000 KHz, more preferably in a range of 100 KHz-500 KHz, and most preferably in a range of 150 KHz-300 KHz.

[0038] Preferably, the modulating provides a duty cycle between 1:2 and 1:250, more preferably between 1:5 and 1:30 and most preferably between 1:10 and 1:20.

[0039] In accordance with a preferred embodiment of the present invention, the modulating provides between 2 and 1000 sequential cycles at an amplitude above a cavitation threshold, more preferably between 25 and 500 sequential cycles at an amplitude above a cavitation threshold and most preferably between 100 and 300 sequential cycles at an amplitude above a cavitation threshold.

[0040] Preferably, the modulating includes modulating the amplitude of the ultrasonic energy over time.

[0041] Preferably, directing includes directing focused ultrasonic energy at a multiplicity of target volumes in a time sequence.

[0042] In accordance with a preferred embodiment of the present invention, directing includes directing focused ultrasonic energy at plural ones of the multiplicity of target volumes at times which at least partially overlap.

[0043] Preferably, at least some of the multiplicity of target volumes at least partially overlap in space.

[0044] In accordance with a preferred embodiment of the present invention, the method includes defining the region by marking at least one surface of the body. The method may also include defining the region by selecting at least one

depth in the body and/or by detecting adipose tissue in the body and/or by detecting non-lysed adipose tissue.

[0045] Preferably, directing also includes defining the target volumes as unit volumes of non-lysed adipose tissue within the region.

[0046] In accordance with a preferred embodiment of the present invention, modulating the ultrasonic energy so as to selectively lyse the adipose tissue in the multiplicity of target volumes proceeds sequentially in time wherein selective lysis of adipose tissue in each target volume takes place only following detection of non-lysed adipose tissue therein.

[0047] Preferably, the method also includes computerized tracking of the multiplicity of target volumes notwithstanding movement of the body.

[0048] Preferably, the computerized tracking includes sensing changes in the position of markings on the body and employing sensed changes for tracking the positions of the target volumes in the body.

[0049] Preferably, the modulation provides a decreasing amplitude over time which exceeds a cavitation threshold.

#### BRIEF DESCRIPTION OF THE DRAWINGS AND APPENDIX

[0050] The present invention will be understood and appreciated more fully from the following detailed description, taken in conjunction with the drawings and appendix in which:

[0051] **FIG. 1** is a simplified pictorial illustration of the general structure and operation of ultrasonic lipolysis apparatus constructed and operative in accordance with a preferred embodiment of the present invention;

[0052] **FIG. 2** is a simplified block diagram illustration of a preferred power source and modulator showing a pattern of variation of ultrasonic pressure over time in accordance with a preferred embodiment of the present invention;

[0053] **FIGS. 3A and 3B** are simplified pictorial illustrations of the appearance of an operator interface display during normal operation and faulty operation respectively;

[0054] **FIG. 4** is a simplified block diagram illustration of an ultrasonic lipolysis system constructed and operative in accordance with a preferred embodiment of the present invention; and

[0055] **FIGS. 5A, 5B and 5C** are together a simplified flowchart illustrating operator steps in carrying out lipolysis in accordance with a preferred embodiment of the present invention.

#### BRIEF DESCRIPTION OF THE APPENDIX

[0056] The Appendix includes computer listings which, taken together, form a computational tracking functionality in accordance with a preferred software embodiment of the present invention.

#### DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0057] Reference is now made to **FIG. 1**, which is a simplified pictorial illustration of the general structure and operation of ultrasonic lipolysis apparatus constructed and

operative in accordance with a preferred embodiment of the present **10** invention. As seen in **FIG. 1**, an ultrasonic energy generator and director, such as an ultrasonic transducer **10**, disposed outside a body, generates ultrasonic energy which, by suitable placement of the transducer **10** relative to the body, is directed to a target-volume **12** inside the body and is operative to selectively generally lyse adipose tissue and generally not lyse non-adipose tissue in the target volume.

[**0058**] A preferred embodiment of ultrasonic energy generator and director useful in the present invention comprises an ultrasonic therapeutic transducer **13** including a curved phased array **14** of piezoelectric elements **15**, typically defining a portion of a sphere or of a cylinder, and having conductive coatings **16** on opposite surfaces thereof. The piezoelectric elements **15** may be of any suitable configuration, shape and distribution. An intermediate element **18**, formed of a material, such as polyurethane, which has acoustic impedance similar to that of soft mammalian tissue, generally fills the curvature defined by phased array **14** and defines a contact surface **20** for engagement with the body, typically via a suitable coupling gel (not shown). Contact surface **20** may be planar, but need not be.

[**0059**] Suitable modulated AC electrical power is supplied by conductors **22** to conductive coatings **16** to cause the piezoelectric elements **15** to provide a desired focused acoustic energy output.

[**0060**] In accordance with a preferred embodiment of the present invention an imaging ultrasonic transducer subassembly **23** is incorporated within transducer **10** and typically comprises a piezoelectric element **24** having conductive surfaces **26** associated with opposite surfaces thereof. Suitably modulated AC electrical power is supplied by conductors **32** to conductive surfaces **26** in order to cause the piezoelectric element **24** to provide an acoustic energy output. Conductors **32**, coupled to surfaces **26**, also provide an imaging output from imaging ultrasonic transducer subassembly **23**.

[**0061**] It is appreciated that any suitable commercially available ultrasonic transducer may be employed or alternatively, imaging ultrasonic transducer subassembly **23** may be eliminated.

[**0062**] It is further appreciated that various types of ultrasonic transducers **10** may be employed. For example, such transducers may include multiple piezoelectric elements, multilayered piezoelectric elements and piezoelectric elements of various shapes and sizes arranged in a phase array.

[**0063**] It In a preferred embodiment of the present invention shown in **FIG. 1**, the ultrasonic energy generator and director are combined in transducer **10**. Alternatively, the functions of generating ultrasonic energy and focusing such energy may be provided by distinct devices.

[**0064**] In accordance with a preferred embodiment of the present invention, a skin temperature sensor **34**, such as an infrared sensor, may be mounted alongside imaging ultrasonic transducer subassembly **23**. Further in accordance with a preferred embodiment of the present invention a transducer temperature sensor **36**, such as a thermocouple, may also be mounted alongside imaging ultrasonic transducer subassembly **23**.

[**0065**] Ultrasonic transducer **10** preferably receives suitably modulated electrical power from a power source and

modulator assembly **40**, forming part of a control subsystem **42**. Control subsystem **42** also typically includes a lipolysis control computer **44**, having associated therewith a camera **46**, such as a video camera, and a display **48**. A preferred embodiment of power source and modulator assembly **40** is illustrated in **FIG. 2** and described hereinbelow. Ultrasonic transducer **10** is preferably positioned automatically or semi-automatically as by an X-Y-Z positioning assembly **49**. Alternatively, ultrasonic transducer **10** may be positioned at desired positions by an operator.

[**0066**] In accordance with a preferred embodiment of the present invention, camera **46** is operative for imaging a portion of the body on which lipolysis is to be performed. A picture of the portion of the patient's body viewed by the camera is preferably displayed in real time on display **48**.

[**0067**] An operator may designate the outline of a region containing adipose tissue. In accordance with one embodiment of the present invention, designation of this region is effected by an operator marking the skin of a patient with an outline **50**, which outline is imaged by camera **46** and displayed by display **48** and is also employed by the lipolysis control computer **44** for controlling the application of ultrasonic energy to locations within the region. A computer calculated representation of the outline may also be displayed on display **48**, as designated by reference numeral **52**. Alternatively, the operator may make a virtual marking on the skin, such as by using a digitizer (not shown), which also may provide computer calculated outline representation **52** on display **48**.

[**0068**] In addition to the outline representation **52**, the functionality of the system of the present invention preferably also employs a plurality of markers **54** which are typically located outside the region containing adipose tissue, but may be located inside the region designated by outline **50**. Markers **54** are visually sensible markers, which are clearly seen by camera **46**, captured by camera **46** and displayed on display **48**. Markers **54** may be natural anatomic markers, such as distinct portions of the body or alternatively artificial markers such as colored stickers. These markers are preferably employed to assist the system in dealing with deformation of the region nominally defined by outline **50** due to movement and reorientation of the body. Preferably, the transducer **10** also bears a visible marker **56** which is also captured by camera **46** and displayed on display **48**.

[**0069**] Markers **54** and **56** are typically processed by computer **44** and may be displayed on display **48** as respective computed marker representations **58** and **60** on display **48**.

[**0070**] **FIG. 1** illustrates the transducer **10** being positioned on the body over a location within the region containing adipose tissue. Blocks designated by reference numerals **62** and **64** show typical portions of a region containing adipose tissue, respectively before and after lipolysis in accordance with a preferred embodiment of the invention. It is seen from a comparison of blocks **62** and **64** that, in accordance with a preferred embodiment of the present invention, within the region containing adipose tissue, the adipose tissue, designated by reference numeral **66**, is lysed, while non-adipose tissue, such as connective tissue, designated by reference numeral **68**, is not lysed.

[**0071**] Reference is now **FIG. 2**, which is a simplified block diagram illustration of a preferred power source and

modulator assembly **40** (**FIG. 1**), showing a pattern of variation of ultrasonic pressure over time in accordance with a preferred embodiment of the present invention. As seen in **FIG. 2**, the power source and modulator assembly **40** preferably comprises a signal generator **100** which provides a time varying signal which is modulated so as to have a series of relatively high amplitude portions **102** separated in time by a series of typically relatively low amplitude portions **104** each relatively high amplitude portion **102** preferably corresponds to a cavitation period and preferably has a decreasing amplitude over time.

[**0072**] Preferably the relationship between the time durations of portions **102** and portions **104** is such as to provide a duty cycle between 1:2 and 1:250, more preferably between 1:5 and 1:30 and most preferably between 1:10 and 1:20.

[**0073**] Preferably, the output of signal generator **100** has a frequency in a range of 50 KHz-1000 KHz, more preferably between 100 KHz-500 KHz and most preferably between 150 KHz-300 KHz.

[**0074**] The output of signal generator **100** is preferably provided to a suitable power amplifier **106**, which outputs via impedance matching circuitry **108** to an input of ultrasonic transducer **10** (**FIG. 1**), which converts the electrical signal received thereby to a corresponding ultrasonic energy output. As seen in **FIG. 2**, the ultrasonic energy output comprises a time varying signal which is modulated correspondingly to the output of signal generator **100** so as to having a series of relatively high amplitude portions **112**, corresponding to portions **102**, separated in time by a series of typically relatively low amplitude portions **114**, corresponding to portions **104**.

[**0075**] Each relatively high amplitude portion **102** preferably corresponds to a cavitation period and has an amplitude at a target volume **12** (**FIG. 1**) in the body which exceeds a cavitation maintaining threshold **120** and preferably has a decreasing amplitude over time. At least an initial pulse of each relatively high amplitude portion **112** has an amplitude at the target volume **12**, which also exceeds a cavitation initiation threshold **122**.

[**0076**] Relatively low amplitude portions **114** have an amplitude which lies below both thresholds **120** and **122**.

[**0077**] Preferably the relationship between the time durations of portions **112** and portions **114** is such as to provide a duty cycle between 1:2 and 1:250, more preferably between 1:5 and 1:30 and most preferably between 1:10 and 1:20.

[**0078**] Preferably, the ultrasonic energy output of ultrasonic transducer **10** has a frequency in a range of 50 KHz-1000 KHz, more preferably between 100 KHz-500 KHz and most preferably between 150 KHz-300 KHz.

[**0079**] Preferably, each high amplitude portion **112** is comprised of between 2 and 1000 sequential cycles at an amplitude above the cavitation maintaining threshold **120**, more preferably between 25 and 500 sequential cycles at an amplitude above the cavitation maintaining threshold **120** and most preferably between 100 and 300 sequential cycles at an amplitude above the cavitation maintaining threshold **120**.

[**0080**] Reference is now made to **FIGS. 3A and 3B**, which are simplified pictorial illustrations of the appearance of an operator interface display during normal operation and faulty operation respectively. As seen in **FIG. 3A**, during normal operation, display **48** typically shows a plurality of target volumes **12** (**FIG. 1**) within a calculated target region **200**, typically delimited by outline representation **52** (**FIG. 1**). Additionally, display **48** preferably provides one or more pre-programmed performance messages **202** and status messages **203**.

[**0081**] It is seen the various target volumes **12** are shown with different shading in order to indicate their treatment status. For example, unshaded target volumes, here designated by reference numerals **204** have already experienced lipolysis. A blackened target volume **12**, designated by reference numeral **205** is the target volume next in line for lipolysis. A partially shaded target volume **206** typically represents a target volume which has been insufficiently treated to achieve complete lipolysis, typically due to an insufficient treatment duration.

[**0082**] Other types of target volumes, such as those not to be treated due to insufficient presence of adipose tissue therein or for other reasons, may be designated by suitable colors or other designations, and are here indicated by reference numerals **208** and **210**.

[**0083**] Typical performance messages **202** may include "CAVITATION IN PROCESS" and "FAT LYSED IN TIES VOLUME". Typical status messages **203** may include an indication of the power level, the operating frequency, the number of target volumes **12** within the calculated target region **200** and the number of target volumes **12** which remain to undergo lipolysis.

[**0084**] Display **48** also preferably includes an graphical cross sectional indication **212** derived from an ultrasonic image preferably provided by imaging ultrasonic transducer subassembly **23** (**FIG. 1**). Indication **212** preferably indicates various tissues in the body in cross section and shows the target volumes **12** in relation thereto. In accordance with a preferred embodiment of the present invention, indication **212** may also provide a visually sensible indication of cavitation within the target volume **12**.

[**0085**] Turning to **FIG. 3B**, it is seen that during abnormal operation, display **48** provides pre-programmed warning messages **214**.

[**0086**] Typical warning messages may include "BAD ACOUSTIC CONTACT", "TEMPERATURE TOO HIGH". The "TEMPERATURE TOO HIGH" message typically relates to the skin tissue, although it may alternatively or additionally relate to other tissue inside or outside of the target volume or in transducer **10** (**FIG. 1**).

[**0087**] Reference is now made to **FIG. 4**, which illustrates an ultrasonic lipolysis system constructed and operative in accordance with a preferred embodiment of the present invention. As described hereinabove with reference to **FIG. 1** and as seen in **FIG. 4**, the ultrasonic lipolysis system comprises a lipolysis control computer **44**, which outputs to a display **48**. Lipolysis control computer **44** preferably receives inputs from video camera **46** (**FIG. 1**) and from a temperature measurement unit **300**, which receives temperature threshold settings as well as inputs from skin temperature sensor **34** (**FIG. 1**) and transducer temperature sensor

**36 (FIG. 1).** Temperature measurement unit **300** preferably compares the outputs of both sensors **34** and **36** with appropriate threshold settings and provides an indication to lipolysis control computer **44** of exceedance of either threshold.

[0088] Lipolysis control computer **44** also preferably receives an input from an acoustic contact monitoring unit **302**, which in turn preferably receives an input from a transducer electrical properties measurement unit **304**. Transducer electrical properties measurement unit **304** preferably monitors the output of power source and modulator assembly **40 (FIG. 1)** to ultrasonic therapeutic transducer **13**.

[0089] An output of transducer electrical properties measurement unit **304** is preferably also supplied to a power meter **306**, which provides an output to the lipolysis control computer **44** and a feedback output to power source and modulator assembly **40**.

[0090] Lipolysis control computer **44** also preferably receives inputs from cavitation detection functionality **308**, tissue layer identification functionality **310** and lysed adipose tissue identification functionality **312**, all of which receive inputs from ultrasonic reflection analysis functionality **314**. Ultrasonic reflection analysis functionality **314** receives ultrasonic imaging inputs from an ultrasonic imaging subsystem **316**, which operates ultrasonic imaging transducer **23 (FIG. 1)**.

[0091] Lipolysis control computer **44** provides outputs to power source and modulator assembly **40**, for operating ultrasonic therapeutic transducer **13**, and to ultrasonic imaging subsystem **316**, for operating ultrasonic imaging transducer **23**. A positioning control unit **318** also receives an output from lipolysis control computer **44** for driving X-Y-Z positioning assembly **49 (FIG. 1)** in order to correctly position transducer **10**, which includes ultrasonic therapeutic transducer **13** and ultrasonic **15** imaging transducer **23**.

[0092] Reference is now made to **FIGS. 5A, 5B** and **5C**, which are together a simplified flowchart illustrating operator steps in carrying out lipolysis in accordance with a preferred embodiment of the present invention. As seen in **FIG. 4A**, initially an operator preferably draws an outline **50 (FIG. 1)** on a patient's body. Preferably, the operator also adheres stereotactic markers **54 (FIG. 1)** to the patient's body and places transducer **10**, bearing marker **56**, at a desired location within outline **50**.

[0093] Camera **46 (FIG. 1)** captures outline **50** and markers **54** and **56**. Preferably, outline **50** and markers **54** and **56** are displayed on display **48** in real time. The output of camera **46** is also preferably supplied to a memory associated with lipolysis control computer **44 (FIG. 1)**.

[0094] A computerized tracking functionality preferably embodied in lipolysis control computer **44** preferably employs the output of camera **46** for computing outline representation **52**, which may be displayed for the operator on display **48**. The computerized tracking functionality also preferably computes coordinates of target volumes for lipolysis treatment, as well as adding up the total volume of tissue sought to undergo lipolysis.

[0095] Preferably, the operator confirms the locations of markers **54** and **56** on display **48** and the computerized tracking functionality calculates corresponding marker representations **58** and **60**.

[0096] In accordance with a preferred embodiment of the present invention the computerized tracking functionality employs markers **54** and marker representations **58** for continuously maintaining registration of outline **50** with respect to outline representation **52**, and thus of target volumes **12** with respect to the patient's body, notwithstanding movements of the patient's body during treatment, such as due to breathing or any other movements, such as the patient leaving and returning to the treatment location.

[0097] The computerized tracking functionality selects an initial target volume to be treated and positioning control unit **318 (FIG. 4)**, computes the required repositioning of transducer **10**. X-Y-Z positioning assembly **49** repositions transducer **10** to overlie the selected target volume.

[0098] Referring additionally to **FIG. 5B**, it is seen that following repositioning of transducer **10**, the lipolysis control computer **44** confirms accurate positioning of transducer **10** with respect to the selected target volume. The ultrasonic imaging subsystem **316 (FIG. 4)** operates ultrasonic imaging transducer **23**, causing it to provide an ultrasonic reflection analysis functionality **3314** for analysis.

[0099] Based on an output from ultrasonic reflection analysis functionality **314**, the thicknesses of the various tissue layers of the patient are determined. Upon receiving an indication of the tissue layer thicknesses, an operator may approve the selected target volume and activates the power source and modulator assembly **40 (FIG. 1)**.

[0100] Turning additionally to **FIG. 5C**, it is seen that the following functionalities take place:

[0101] Transducer electrical properties measurement unit **304** provides an output to acoustic contact monitoring unit **302**, which determines whether sufficient acoustic contact with the patient is present, preferably by analyzing the current and voltage at therapeutic transducer **13**.

[0102] Transducer electrical properties measurement unit **304** provides an output to power meter **306**, which computes the average electrical power received by the therapeutic transducer **13**. If the average electrical power received by the therapeutic transducer **13** exceeds a predetermined threshold, operation of the power source and modulator assembly **40** may be automatically terminated.

[0103] Skin temperature sensor **34** measures the current temperature of the skin at transducer **10** and supplies it to temperature measurement unit **300**, which compares the skin temperature to the threshold temperature. Similarly, transducer temperature sensor **36** measures the current temperature at transducer **10** and supplies it to temperature measurement unit **300**, which compares the transducer temperature to the threshold temperature. The outputs of temperature measurement unit **300** are supplied to lipolysis control computer **44**.

[0104] The ultrasonic imaging subsystem **316** operates ultrasonic imaging transducer **23** and receives an imaging output, which is analyzed by ultrasonic reflection analysis functionality **314**. The result of this analysis is employed for cavitation detection and a cavitation detection output is supplied to lipolysis control computer **44**.

[0105] Should any of the following four conditions occur, the power source and modulator assembly **40** automatically terminates operation of therapeutic transducer **13**. Should

none of the following conditions occur, the automatic operation of power source and modulator assembly **40** continues:

- [0106] 1. Acoustic contact is insufficient.
- [0107] 2. Skin temperature exceeds threshold temperature level.
- [0108] 3. Transducer **13** temperature exceeds threshold temperature level.
- [0109] 4. Cavitation is not detected.

[0110] Returning to **FIG. 5B**, it is noted that during automatic operation of power source and modulator assembly **40**, video camera **46** preferably records the target region and notes whether the transducer **10** remained stationary during the entire treatment duration of the selected target volume **12**. If so, and if none of the aforesaid four conditions took place, lipolysis control computer **44** confirms that the selected target volume was treated. The computerized tracking functionality of lipolysis control computer **44** then proposes a further target volume **12** to be treated.

[0111] If, however, the transducer **10** did not remain stationary for a sufficient duration, the selected target volume is designated by lipolysis control computer **44** as having been insufficiently treated.

[0112] It is appreciated that by using multiple transducers multiplicity of target volumes can be treated at various time patterns such as sequential time patterns or partially overlapping time patterns.

[0113] It is also appreciated that the multiplicity of target volumes may also overlap in space or partially overlap in space.

[0114] The Appendix includes a software object code for the computational functionality and includes the following steps:

[0115] 1). Provide a PC computer, such as an Intel-based Pentium III 800 MHz computer with Microsoft Windows 2000 operating system, a hard disk with a minimal capacity of 10 GB, 1 available PCI slot and a 17" computer screen.

[0116] 2). Matrox Orion Frame Grabber Hardware installation/configuration:

- [0117] a). Remove/Disable the VGA board present in the PC computer.
- [0118] b). Place the Matrox Orion Frame Grabber board available from Matrox (1055 boul. St-Regis, Dorval, Quebec Canada H9P 2T4) into an available PCI slot in the PC computer.
- [0119] c). Under Microsoft Windows 2000, on booting the computer, Microsoft Windows' Plug-and-Play system detects a new Multimedia Video Device and requests to assign it a driver. At this point, click Cancel.
- [0120] d). Install the JAI CV-S3200 DSP Surveillance Color CCD Camera available from JAI America Inc., 23046 Avenida de la Carlota, Suite 450, Laguna Hills, Calif. 92653 United States and connect to the Matrox Orion Framer Grabber.
- [0121] e). Set the computer screen impedance switches, red, green, and blue inputs to 75 ohms.

[0122] f). Set the computer screen synchronization inputs to high impedance and external sync mode.

[0123] g). Connect the computer screen to Matrox Orion's 15-pin female VGA output connector (DB-15).

[0124] 3). Matrox MIL-Lite software (version 6.1) installation:

[0125] a). Run the Matrox MIL-Lite setup.exe program and follow the default prompts.

[0126] b). Run the Matrix Expansion Pack (version 1.0).

[0127] c). Choose "PAL-YC mode of grabbing" when prompted.

[0128] d). Establish the RS-232 serial communication between the PC and the JAI camera by registering and installing the "JAI Camera ActiveX object"

[0129] 4). Track Software Installation:

[0130] a). Create the following respective directories:

[0131] (1). <Track root>—a root directory for Track project

[0132] (2). <Track root>\Src—contains source code files

[0133] (3). <Track root>\Debug—contains an executable file for Track project

[0134] (4). <Track root>\Images—contains BMP files for debugging the interior region detection process.

[0135] (5). <Track root>\Log—contains log files and BMP image of the scene

[0136] (6). <Track root>\Timing—contains timing data files for debugging

[0137] b). Create the file TRACKOBJ.HEX based on the Appendix and place it into a temporary directory.

[0138] c). Unhex the computer listing TRACKOBJ.HEX using BEX IT V1.8 or greater by John Augustine, 3129 Earl St., Laureldale, Pa. 19605 creating file TRACKOBJ.ZIP

[0139] d). Decompress the file TRACKOBJ.ZIP using WINZIP version 6.2 or greater, extracting all files into a temporary directory essentially extracting the following file objects:

[0140] 1). CAMERADLG.OBJ

[0141] 2). DISPLAYFUNCS.OBJ

[0142] 3). IMAGEPROC.OBJ

[0143] 4). INTERIORREGION.OBJ

[0144] 5). MARKERS.OBJ

[0145] 6). NODES.OBJ

[0146] 7). PARAMETERSDLG.OBJ

[0147] 8). STDAFX.OBJ

[0148] 9). TRACK.OBJ

[0149] 10). TRACK.RES

[0150] 11). TRACKDLG.OBJ

[0151] 12). TRANSDUCER.OBJ

[0152] 13). UTILS.OBJ

[0153] 14). VIDEOMATROX.OBJ

[0154] e). Compile the Object code stored in the temporary directory created in step 4d using Microsoft Visual C++ compiler version 6.0 The resulting application is created: TRACK.EXE

[0155] f). To run the Track software, execute the program TRACK.EXE and follow the on-line help to operate the program.

[0156] It is appreciated that the software components of the present invention may, if desired, be implemented in ROM (read-only memory) form. The software components may, generally, be implemented in hardware, if desired, using conventional techniques.

[0157] It is appreciated that the particular embodiment implemented by the Appendix is intended only to provide an extremely detailed disclosure of the present invention and is not intended to be limiting.

[0158] It will be appreciated by persons skilled in the art that the present invention is not limited by what has been particularly shown and described hereinabove. Rather the scope of the present invention includes both combinations and subcombinations of the various features described hereinabove as well as variations and modifications which would occur to persons skilled in the art upon reading the specification and which are not in the prior art.

APPENDIX

00000000: 4D 5A 90 00 03 00 00 00 04 00 00 00 FF FF 00 00
00000010: B8 00 00 00 00 00 00 40 00 00 00 00 00 00 00
00000020: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000030: 00 00 00 00 00 00 00 00 00 00 00 E0 00 00 00
00000040: GE 1F BA 0E 00 B4 09 CD 21 88 01 4C CD 21 54 68
00000050: 69 73 20 70 72 6F 67 72 61 6D 20 63 61 6E 6E 6F
00000060: 74 20 62 65 20 72 75 6E 20 69 6E 20 44 4F 53 20
00000070: 6D 6F 64 65 2E 9D 0D 0A 24 00 00 00 00 00 00
00000080: E6 70 07 AD A2 11 69 FE A2 11 69 FE A2 11 69 FE
00000090: C0 0E 7A FE A4 11 69 FE 21 0D 67 FE A3 11 69 FE
000000A0: 4A 0E 63 FE A9 11 69 FE A2 11 68 FE 1D 11 69 FE
000000B0: 4A 0E 6D FE 86 11 69 FE 4A 0E 62 FE B2 11 69 FE
000000C0: 1A 17 6F FE A3 11 69 FE 52 69 63 68 A2 11 69 FE
000000D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000000E0: 50 45 00 00 4C 01 04 00 BF 7A D6 3B 00 00 00 00
000000F0: 00 00 00 00 E0 00 0F 01 0B 01 06 00 00 80 00 00
00000100: 00 80 98 00 00 00 00 00 50 83 00 00 00 10 00 00
00000110: 00 90 00 00 00 00 40 00 00 10 00 00 00 10 00 00
00000120: 04 00 00 00 00 00 00 00 04 00 00 00 00 00 00
00000130: 00 10 99 00 00 10 00 00 00 00 00 02 00 00 00
00000140: 00 00 10 00 00 10 00 00 00 10 00 00 10 00 00
00000150: 00 00 00 00 10 00 00 00 00 00 00 00 00 00 00
00000160: 88 9E 00 00 AG 00 00 00 00 99 00 70 0D 00 00
00000170: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000180: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000190: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000001A0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000001B0: 00 00 00 00 00 00 00 00 90 00 00 84 03 00 00
000001C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000001D0: 00 00 00 00 00 00 00 2E 74 65 78 74 00 00 00
000001E0: 45 77 00 00 00 10 00 00 80 00 00 00 10 00 00
000001F0: 00 00 00 00 00 00 00 00 00 00 00 20 00 00 60
00000200: 2E 72 64 61 74 61 00 00 B2 16 00 00 90 00 00
00000210: 00 20 00 00 00 90 00 00 00 00 00 00 00 00 00

APPENDIX-continued

00000220: 00 00 00 00 40 00 00 40 2E 64 61 74 61 00 00 00
00000230: F8 4C 98 00 00 80 00 00 00 10 00 00 00 B0 00 00
00000240: 00 00 00 00 00 00 00 00 00 00 00 40 00 00 C0
00000250: 2E 72 73 72 63 00 00 00 70 0D 00 00 00 99 00
00000260: 00 10 00 00 00 C0 00 00 00 00 00 00 00 00 00
00000270: 00 00 00 00 40 00 00 40 00 00 00 00 00 00 00
00000280: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000290: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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000002B0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000002C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000002D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000002E0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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000004C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000004D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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000006B0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000006C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000006D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00



APPENDIX-continued

00001060: C2 04 00 90 90 90 90 90 90 90 90 90 90 90 90 90  
00001070: 8B 41 20 6A 00 50 FF 15 7C 93 40 00 C3 90 90 90  
00001080: 8B 41 20 6A 01 50 FF 15 7C 93 40 00 C3 90 90 90  
00001090: 56 68 86 7F 00 00 6A 00 FF 15 6C 93 40 00 8B 0D  
000010A0: 10 BC 40 00 8B F0 25 FF FF 00 00 50 6A F4 51 FF  
000010B0: 15 70 93 40 00 56 FF 15 74 93 40 00 SE C3 90 90  
000010C0: 56 68 00 7F 00 00 6A 00 FF 15 6C 93 40 00 8B 0D  
000010D0: 10 BC 40 00 8B F0 25 FF FF 00 00 50 6A F4 51 FF  
000010E0: 15 70 93 40 00 56 FF 15 74 93 40 00 SE C3 90 90  
000010F0: A1 10 BC 40 00 56 50 FF 15 68 93 40 00 8B 35 18  
00001100: 90 40 00 68 FF 00 00 40 A3 04 BC 40 00 FF D6 68  
00001110: 00 FF 00 40 A3 00 BC 40 00 FF D6 68 00 00 FF 40  
00001120: A3 FC BB 40 00 FF D6 6A 00 A3 F8 BB 40 00 FF D6  
00001130: 8B 35 1C 90 40 00 68 FF 00 00 40 6A 03 A3 F0 BB  
00001140: 40 00 FF D6 68 00 FF 00 40 6A 03 A3 EC BB 40 00  
00001150: FF D6 68 00 00 FF 40 6A 03 A3 E8 BB 40 00 FF D6  
00001160: 6A 00 6A 03 A3 E4 BB 40 00 FF D6 8B 35 0C 90 40  
00001170: 00 68 FF 00 00 40 6A 01 6A 00 A3 DC BB 40 00 FF  
00001180: D6 68 00 FF 00 40 6A 01 6A 00 A3 D8 BB 40 00 FF  
00001190: D6 68 00 00 FF 40 6A 01 6A 00 A3 D4 BB 40 00 FF  
000011A0: D6 6A 00 6A 01 6A 00 A3 D0 BB 40 00 FF D6 A3 C8  
000011B0: BB 40 00 5E C3 90 90 90 90 90 90 90 90 90 90 90  
000011C0: A1 F0 BB 40 00 56 8B 35 14 90 40 00 50 FF D6 8B  
000011D0: 0D F8 BB 40 00 51 FF D6 8B 15 FC BB 40 00 52 FF  
000011E0: D6 A1 00 BC 40 00 50 FF D6 8B 0D 04 BC 40 00 8B  
000011F0: 15 10 BC 40 00 51 52 FF 15 64 93 40 00 5E C3 90  
00001200: 83 EC 10 8B 0D B0 FC D8 00 8B 15 F0 BB 40 00 33  
00001210: C0 89 4C 24 0C 8B 0D 04 BC 40 00 89 44 24 00 89  
00001220: 44 24 04 A1 AC FC D8 00 89 44 24 08 8D 44 24 00  
00001230: 52 50 51 FF 15 60 93 40 00 83 C4 10 C3 90 90 90  
00001240: A1 30 B0 40 00 83 EC 10 83 F8 02 56 57 75 1E 8B  
00001250: 7C 24 1C 8B 35 B0 0D 88 00 8B 0D B4 00 D8 00 2B  
00001260: FE 8B 74 24 20 2B F1 D1 E7 D1 E6 EB 08 8B 74 24  
00001270: 20 8B 7C 24 1C 83 FF 03 0F 8C B5 00 00 00 83 FE  
00001280: 03 0F 8C AC 00 00 00 A1 AC FC D8 00 83 C0 FD 3B  
00001290: F8 0F 8D 9C 00 00 00 8B 0D B0 FC D8 00 83 C1 FD  
000012A0: 3B F1 0F 8D 8B 00 00 00 8B 15 10 BC 40 00 53 52  
000012B0: FF 15 68 93 40 00 8B D8 8D 47 FD 89 44 24 0C 8B  
000012C0: 44 24 28 8D 4E FD 83 C7 03 83 C6 03 3D 00 FF 00  
000012D0: 40 89 4C 24 10 89 7C 24 14 89 74 24 18 7F 1D 74  
000012E0: 13 85 C0 74 1E 3D FF 00 00 40 75 17 8B 15 00 BC  
000012F0: 40 00 EB 1D 8B 15 FC BB 40 00 EB 15 3D 00 00 FF  
00001300: 40 74 08 8B 15 F0 BB 40 00 EB 06 8B 15 F8 BB 40  
00001310: 00 8B 0D 04 BC 40 00 8D 44 24 0C 52 50 51 FF 15  
00001320: 60 93 40 00 8B 15 10 BC 40 00 53 52 FF 15 64 93  
00001330: 40 00 5B 5F 5E 83 C4 10 C3 90 90 90 90 90 90 90  
00001340: A1 30 B0 40 00 83 EC 10 83 F8 02 53 55 8B 6C 24  
00001350: 1C 56 75 1E 8B 35 B0 0D 88 00 8B 5C 24 24 8B 0D  
00001360: B4 00 D8 00 2B EE 2B D9 D1 E5 D1 E3 89 5C 24 24  
00001370: EB 04 8B 5C 24 24 83 FD 03 0F 8C 09 01 00 00 83  
00001380: FB 03 0F 8C 01 00 00 00 A1 AC FC D8 00 83 C0 FD  
00001390: 3B E8 0F 8D F0 00 00 8B 0D B0 FC D8 00 83 C1  
000013A0: FD 3B D9 0F 8D DF 00 00 00 8B 15 10 BC 40 00 57  
000013B0: 52 FF 15 68 93 40 00 8B F0 6A 00 56 FF 15 08 90  
000013C0: 40 00 DB 05 30 B0 40 00 DC 0D 58 B3 40 00 DC 0D  
000013D0: 88 94 40 00 DC 05 80 94 40 00 E8 21 6F 00 00 8B  
000013E0: 4C 24 28 8B FD 2B F8 2B D8 03 E8 03 C1 89 44 24  
000013F0: 1C 8B 44 24 2C 3D 00 FF 00 40 7F 37 74 20 85 C0  
00001400: 74 38 3D FF 00 00 40 75 31 8B 15 D8 BB 40 00 52  
00001410: 56 FF 15 00 90 40 00 A1 EC BB 40 00 EB 44 8B 15  
00001420: D4 BB 40 00 52 56 FF 15 00 90 40 00 A1 E8 BB 40  
00001430: 52 56 FF 15 00 90 40 00 A1 DC BB 40 00 EB 13 8B  
00001440: 52 56 FF 15 00 90 40 00 A1 DC BB 40 00 EB 13 8B  
00001450: 15 D0 BB 40 00 52 56 FF 15 00 90 40 00 A1 E4 BB  
00001460: 40 00 50 56 FF 15 00 90 40 00 8B 4C 24 1C 51 55  
00001470: 53 57 56 FF 15 10 90 40 00 8B 15 10 BC 40 00 56  
00001480: 52 FF 15 64 93 40 00 5F SE 5D 5B 83 C4 10 C3 90  
00001490: A1 20 FF D7 00 56 33 F6 85 C0 7E 24 8B 04 B5 1C  
000014A0: BF D7 00 8B 0C B5 1C CF D7 00 6A 00 50 51 E8 8D  
000014B0: FE FF EF A1 20 FF D7 00 83 C4 0C 46 3B F0 7C DC  
000014C0: 3B 35 28 FF D7 00 7D 1C 8B 14 B5 1C BF D7 00 8B  
000014D0: 04 B5 1C CF D7 00 6A 00 6A 09 52 50 E8 0F 02 00  
000014E0: 00 83 C4 10 5E C3 90 90 90 90 90 90 90 90 90  
000014F0: A1 20 FF D7 00 56 33 F6 85 C0 7E 27 8B 04 B5 1C  
00001500: DF D7 00 8B 0C B5 1C EF D7 00 68 FF 00 00 40 50  
00001510: 51 E8 2A FE FF FF A1 20 FF D7 00 83 C4 0C 46 3B

APPENDIX-continued

00001520: F0 7C D9 3B 35 28 FF D7 00 7D 1F 8B 14 B5 1C DF  
00001530: D7 00 8B 04 B5 1C EF D7 00 68 00 FF 00 40 6A 09  
00001540: 52 50 E8 A9 01 00 00 83 C4 10 5E C3 90 90 90 90  
00001550: A1 54 99 D7 00 57 33 FF 85 C0 7E 2C 56 BE 70 99  
00001560: D7 00 8B 46 04 8B 0E 6A 00 50 51 E8 D0 FC FF FF  
00001570: A1 54 99 D7 00 83 C4 0C 47 83 C6 5C 3B F8 7C E2  
00001580: 5E B8 01 00 00 00 5F C3 B8 01 00 00 00 5F C3 90  
00001590: A1 54 99 D7 00 57 33 FF 85 C0 7E 35 56 BE 6C 99  
000015A0: D7 00 83 7E 44 01 75 14 8B 06 8B 4E FC 68 00 00  
000015B0: FF 40 50 51 E8 87 FC FF 83 C4 0C A1 54 99 D7  
000015C0: 00 47 83 C6 5C 3B F8 7C D9 5E B8 01 00 00 5F  
000015D0: C3 B8 01 00 00 00 5F C3 90 90 90 90 90 90 90 90  
000015E0: 83 3D 20 FB D8 00 01 75 1A A1 DC FA D8 00 8B 0D  
000015F0: D8 FA D8 00 68 FF 00 40 50 51 E8 40 FC FF FF  
00001600: 83 C4 0C B8 01 00 00 00 C3 90 90 90 90 90 90 90  
00001610: A1 10 BC 40 00 83 EC 10 56 57 50 FF 15 68 93 40  
00001620: 00 8B F8 6A 10 57 FF 15 04 90 40 00 A1 D8 B1 40  
00001630: 00 33 F6 85 C0 0F 8E 91 00 00 00 53 8B ID 60 93  
00001640: 40 00 8B 15 30 B0 40 00 8B 04 B5 48 FA C0 00 8B  
00001650: 0C B5 A8 F4 C0 00 83 FA 02 75 14 8B 15 B0 00 D8  
00001660: 00 2B C2 8B 15 B4 00 D8 00 2B CA D1 E0 D1 E1 83  
00001670: F8 02 7C 49 83 F9 02 7C 44 8B 15 AC FC D8 00 83  
00001680: C2 FE 3B C2 7D 37 8B 15 B0 FC D8 00 83 C2 FE 3B  
00001690: CA 7D 2A 8D 50 FE 83 C0 02 89 54 24 0C 8D 51 FE  
000016A0: 83 C1 02 89 44 24 14 A1 FC BB 40 00 89 4C 24 18  
000016B0: 8D 4C 24 0C 50 51 57 89 54 24 1C FF D3 A1 D8 B1  
000016C0: 40 00 46 3B F0 0F 8C 77 FF FF FF 5B 8B 15 10 BC  
000016D0: 40 00 57 52 FF 15 64 93 40 00 5F B8 01 00 00 00  
000016E0: 5E 83 C4 10 C3 90 90 90 90 90 90 90 90 90 90  
000016F0: 8B 44 24 0C 83 EC 10 99 53 2B C2 56 8B F0 A1 30  
00001700: B0 40 00 57 D1 FE 83 F8 02 75 1E 8B 5C 24 20 8B  
00001710: 3D B0 00 D8 00 8B 0D B4 00 D8 00 2B DF 8B 7C 24  
00001720: 24 2B F9 D1 E3 D1 E7 EB 08 8B 7C 24 24 8B 5C 24  
00001730: 20 3B DE 0F 8C AE 00 00 00 3B FE 0F 8C A6 00 00  
00001740: 00 A1 AC FC D8 00 2B C6 3B D8 0F 8D 97 00 00 00  
00001750: 8B 0D B0 FC D8 00 2B CE 3B F9 0F 8D 87 00 00 00  
00001760: 8B 15 10 BC 40 00 55 52 FF 15 68 93 40 00 8B E8  
00001770: 8B C3 2B C6 8B CF 89 44 24 10 8B 44 24 30 2B CE  
00001780: 8D 14 1E 03 F7 3D 00 FF 00 40 89 4C 24 14 89 54  
00001790: 24 18 89 74 24 1C 7F 1B 74 12 85 C0 74 1C 3D FF  
000017A0: 00 00 40 75 15 A1 00 BC 40 00 EB 1A A1 FC BB 40  
000017B0: 00 EB 13 3D 00 00 FF 40 74 07 A1 F0 BB 40 00 EB  
000017C0: 05 A1 F8 BB 40 00 8B 15 04 BC 40 00 8D 4C 24 10  
000017D0: 50 51 52 FF 15 60 93 40 00 A1 10 BC 40 00 55 50  
000017E0: FF 15 64 93 40 00 5D 5F 5E 5B 83 C4 10 C3 90 90  
000017F0: A1 18 93 40 00 56 8B 35 EC 92 40 00 83 C0 40 68  
00001800: 5C B0 40 00 50 FF D6 8B 4C 24 10 8B 15 18 93 40  
00001810: 00 51 83 C2 40 68 58 B0 40 52 FF D6 A1 18 93  
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00001860: 00 8B F8 83 C4 04 85 FF 75 0D 68 84 B0 40 00 E8  
00001870: 7C FF FF FF 83 C4 04 8D 14 B5 00 00 00 00 8B C7  
00001880: 2B C2 5F 83 C0 04 5E C3 90 90 90 90 90 90 90 90  
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000018C0: 2C FF FF FF 83 C4 04 8D 14 F5 00 00 00 00 8B C7  
000018D0: 2B C2 5F 83 C0 08 5E C3 90 90 90 90 90 90 90 90  
000018E0: 53 8B 5C 24 14 8B 44 24 10 55 8B 6C 24 0C 56 57  
000018F0: 8B 7C 24 18 2B FD 2B D8 47 43 8D 04 BD 04 00 00  
00001900: 00 50 FF 15 20 93 40 00 8B F0 83 C4 04 85 F6 75  
00001910: 0D 68 E8 B0 40 00 E8 D5 FE FF FF 83 C4 04 8B D3  
00001920: B9 04 00 00 00 0F AF D7 C1 E5 02 8D 04 D5 08 00  
00001930: 00 00 2B CD 50 03 F1 FF 15 20 93 40 00 83 C4 04  
00001940: 89 04 2E 85 C0 75 0D 68 C4 B0 40 00 E8 9F FE FF  
00001950: FF 83 C4 04 8B 4C 24 1C B8 08 00 00 00 8D 14 CD  
00001960: 00 00 00 00 8B 4C 24 14 2B C2 8B 14 2E 03 D0 8B  
00001970: 44 24 18 89 14 2E 8D 51 01 3B D0 7F 17 2B C2 8D  
00001980: 0C 96 C1 E3 03 40 8B 51 FC 83 C1 04 03 D3 48 89  
00001990: 51 FC 75 F2 8B C6 5F 5E 5D 5B C3 90 90 90 90 90  
000019A0: 8B 44 24 08 8B 4C 24 04 8D 54 81 FC 52 FF 15 1C  
000019B0: 93 40 00 59 C3 90 90 90 90 90 90 90 90 90 90 90  
000019C0: 8B 44 24 08 8B 4C 24 04 8D 54 C1 F8 52 FF 15 1C  
000019D0: 93 40 00 59 C3 90 90 90 90 90 90 90 90 90 90 90

APPENDIX-continued

000019E0: 8B 4C 24 10 53 56 8B 74 24 0C 57 8B 7C 24 14 8B  
 000019F0: 1D 1C 93 40 00 8B 04 BE 8D 54 C8 F8 52 FF D3 8D  
 00001A00: 44 BE FC 50 FF D3 83 C4 08 5F 5E 5B C3 90 90 90  
 00001A10: 55 8B EC 83 E4 F8 83 EC 34 53 8B 5D 0C 56 57 53  
 00001A20: 6A 01 E8 19 FE FF FF 8B F0 53 6A 01 89 74 24 40  
 00001A30: E8 0B FE FF FF 53 6A 01 89 44 24 38 E8 FF FD FF  
 00001A40: FF 83 C4 18 83 FB 01 89 44 24 14 0F 8C 11 03 00  
 00001A50: 00 8D 78 04 8B CB 33 C0 83 FB 01 F3 AB 0F 8C FF  
 00001A60: 02 00 00 8D 46 04 89 5C 24 2C 89 44 24 1C 8B 44  
 00001A70: 24 20 2B C6 8B 74 24 34 89 44 24 10 8B 7D 08 B9  
 00001A80: 01 00 00 00 C7 44 24 38 00 00 00 00 C7 44 24 3C  
 00001A90: 00 00 00 00 8D 47 04 89 4C 24 24 8B D0 8B 44 24  
 00001AA0: 14 2B C7 89 54 24 28 89 44 24 34 83 3C 10 01 74  
 00001AB0: 6A 8B 44 24 14 BF 01 00 00 83 C0 04 89 44 24  
 00001AC0: 18 8B 44 24 18 8B 00 85 C0 75 1E 8B 02 DD 04 F8  
 00001AD0: D9 E1 DC 54 24 38 DF E0 F6 C4 01 75 28 DD 5C 24  
 00001AE0: 38 89 4C 24 0C 8B F7 EB 1E 83 F8 01 7E 19 68 28  
 00001AF0: B1 40 00 E8 F8 FC FF FF 8B 54 24 2C 8B 4C 24 28  
 00001B00: 83 C4 04 EB 02 DD D8 8B 44 24 18 47 83 C0 04 3B  
 00001B10: FB 89 44 24 18 7E AA 8B 44 24 34 41 83 C2 04 3B  
 00001B20: CB 89 4C 24 24 89 54 24 28 7E 80 8B 44 24 14 8B  
 00001B30: 0C B0 41 89 0C B0 8B 44 24 0C 3B C6 74 69 B9 01  
 00001B40: 00 00 00 8B 55 08 8B 7C 24 0C 8D 04 CD 00 00 00  
 00001B50: 00 8B 14 BA 8B 7D 08 8B D8 03 D0 03 IC B7 DD 02  
 00001B60: DD 03 DD 1A 8B 1C B7 DD 1C 18 03 C3 8B 5D 0C 41  
 00001B70: 3B CB 7E CF 8B 4D 14 B8 01 00 00 00 3B C8 7C 27  
 00001B80: 8B 55 10 8B 4C 24 0C 8B 0C 8A 8B 3C B2 DD 04 C1  
 00001B90: DD 04 C7 8D 0C C1 40 DD 19 8B 14 B2 8B 4D 14 DD  
 00001BA0: 5C C2 F8 3B C1 7E D9 8B 4C 24 10 8B 44 24 1C 8B  
 00001BB0: 54 24 0C 8D 3C F5 00 00 00 89 14 01 8B 55 08  
 00001BC0: 89 30 8B C7 03 04 B2 DD 00 DC 1D 90 94 40 00 DF  
 00001BD0: E0 F6 C4 40 74 10 68 0C B1 40 00 E8 10 FC FF FF  
 00001BE0: 8B 55 08 83 C4 04 8B 0C B2 DD 05 80 94 40 00 DC  
 00001BF0: 34 0F 8D 04 0F C7 00 00 00 00 00 C7 40 04 00 00  
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 00001C10: 0C C1 40 3B C3 DD 19 7E EE 8B 7D 14 B8 01 00 00  
 00001C20: 00 3B F8 7C 15 8B 4D 10 D9 C0 8B 0C B1 DC 0C C1  
 00001C30: 8D 0C C1 40 3B C7 DD 19 7E EB 8B 45 10 B9 01 00  
 00001C40: 00 00 2B C2 89 4C 24 28 DD D8 8D 7A 04 89 44 24  
 00001C50: 34 3B CE 74 6F 8B 17 B9 01 00 00 00 DD 04 F2 8D  
 00001C60: 04 F2 C7 00 00 00 00 C7 40 04 00 00 00 8B  
 00001C70: 17 8B 5D 08 8D 04 CD 00 00 00 03 D0 03 04 B3  
 00001C80: 8B 5D 0C 41 D9 C0 DC 08 3B CB DC 2A DD 1A 7E DF  
 00001C90: 8B 4D 14 B8 01 00 00 00 3B C8 0F 8C EF 00 00 00  
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 00001CB0: 0C C1 DC 0C C3 40 DC 29 DD 19 3B 45 14 7E E5 8B  
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 00001CD0: 24 28 0F 79 FF FF FF 8B 4C 24 1C 8B 44 24 2C  
 00001CE0: 83 C1 04 48 89 4C 24 1C 89 44 24 2C 0F 85 8A FD  
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 00001D30: F2 DD 04 FA 8D 34 F2 8B 7C 24 10 DD 1E 8B 10 8B  
 00001D40: 71 FC DD 1C D6 8B 54 24 2C 4A 89 54 24 2C 75 D4  
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 00001D60: 75 AA 8B 44 24 14 53 6A 01 50 E8 31 FC FF FF 8B  
 00001D70: 4C 24 2C 53 6A 01 51 E8 24 FC FF FF 53 6A 01 56  
 00001D80: E8 1B FC FF FF 83 C4 24 5F 5E 5B 8B E5 5D C3 DD  
 00001D90: D8 E9 2E FF FF FF 90 90 90 90 90 90 90 90 90  
 00001DA0: 56 57 8B 3D 28 FF D7 00 33 F6 85 FF 0F 8E A1 00  
 00001DB0: 00 00 DB 04 B5 1C 9F D7 00 DB 04 B5 1C AF D7 00  
 00001DC0: D9 C0 D8 CA D9 E0 D9 C1 D8 CA D9 E0 DC 0D 48 5A  
 00001DD0: D3 00 D9 C1 DC 0D 5A D3 00 DE C1 D9 C2 CD 0D  
 00001DE0: 18 5A D3 00 DE C1 D9 C3 DC 0D 20 5A D3 00 DE C1  
 00001DF0: DC 05 28 5A D3 00 DC 05 88 94 40 00 E8 FF 64 00  
 00001E00: 00 D9 C2 D8 CB 89 04 B5 1C EF D7 00 D9 E0 DC 0D  
 00001E10: 50 5A D3 00 D9 C9 DC 0D 48 5A D3 00 DE C1 D9 C9  
 00001E20: DC 0D 30 5A D3 00 DE C1 D9 C9 DC 0D 38 5A D3 00  
 00001E30: DE C1 DC 05 40 5A D3 00 DC 05 88 94 40 00 E8 BD  
 00001E40: 64 00 00 89 04 B5 1C DF D7 00 46 3B F7 0F 8C 5F  
 00001E50: FF FF FF 5F B8 01 00 00 00 5E C3 90 90 90 90 90  
 00001E60: DB 44 24 0C DB 44 24 10 D9 C0 D8 CA D9 E0 D9 C2  
 00001E70: D8 CB D9 E0 DC 0D 48 5A D3 00 D9 C1 DC 0D 50 5A  
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 00001E90: DC 0D 18 5A D3 00 DE C1 DC 05 28 5A D3 00 DC 05

APPENDIX-continued

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 00001ED0: 0D 30 5A D3 00 DE C1 DC 05 40 5A D3 00 DC 05 88  
 00001EE0: 94 40 00 E8 15 64 00 00 8B 54 24 08 89 02 B8 01  
 00001EF0: 00 00 00 C3 90 90 90 90 90 90 90 90 90 90 90  
 00001F00: 55 8B EC 83 E4 F8 81 EC B8 00 00 00 DB 05 14 50  
 00001F10: D3 00 B9 01 00 00 00 C7 44 24 10 00 00 00 C7  
 00001F20: 44 24 14 00 00 F0 3F 8D 44 24 20 DC 6D 10 D9 C0  
 00001F30: DB 05 18 50 D3 00 DC 6D 08 DD 54 24 00 D9 C0 D8  
 00001F40: C9 D9 C2 D8 CB DE C1 D9 FA DD 5C 24 08 DD D8 DD  
 00001F50: D8 DD 44 24 00 D9 F3 89 4C 24 00 DB 44 24 00 41  
 00001F60: 83 C0 10 83 F9 0A 89 4C 24 00 D8 C9 D9 C0 D9 FE  
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 00001F80: 40 00 33 C0 DD 80 E8 FF C0 00 DC 4C 04 10 83 C0  
 00001F90: 08 3D A8 00 00 00 DE C1 7C EA DB 45 18 D8 C1 DC  
 00001FA0: 5C 24 08 DF E0 F6 C4 01 DD D8 75 09 B8 01 00 00  
 00001FB0: 00 8B E5 5D C3 33 C0 8B E5 5D C3 90 90 90 90 90  
 00001FC0: 55 8B EC 83 E4 F8 83 EC 08 53 56 6A 15 6A 01 6A  
 00001FD0: 15 6A 01 E8 08 F9 FF FF 6A 01 6A 01 6A 15 6A 01  
 00001FE0: 89 44 24 2C E8 F7 F8 FF FF 8B 55 0C 83 C4 20 83  
 00001FF0: FA 01 8B F0 7C 1B 8D 46 04 8B CA 8B 18 83 C0 04  
 00002000: 49 C7 43 08 00 00 00 C7 43 0C 00 00 F0 3F 75  
 00002010: EA 8B 45 08 6A 01 56 52 50 E8 F2 F9 FF FF 8B 4C  
 00002020: 24 1C 6A 15 6A 01 6A 15 6A 01 51 E8 B0 F9 FF FF  
 00002030: 6A 01 6A 01 6A 15 6A 01 56 E8 A2 F9 FF FF 83 C4  
 00002040: 38 B8 01 00 00 00 5E 5B 8B E5 5D C3 90 90 90 90  
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 00002060: FF 83 C4 08 85 DB 7E 52 8B 44 24 14 55 57 8B 7C  
 00002070: 24 18 83 C6 04 89 5C 24 20 C7 00 00 00 00 C7  
 00002080: 40 04 00 00 00 00 B9 08 00 00 00 8B D3 8B 2E DD  
 00002090: 04 39 DC 0C 29 83 C1 08 4A DC 00 DD 15 75 EE 8B  
 000020A0: 4C 24 20 83 C6 04 53 C0 08 49 89 4C 24 20 75 C9  
 000020B0: 5F 5D 5E B8 01 00 00 00 5B C3 5E B8 01 00 00 00  
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 000020E0: 94 40 00 D9 05 98 94 40 00 D9 05 98 94 40 00 D9  
 000020F0: 05 98 94 40 00 53 55 8B 6C 24 18 56 8B 74 24 18  
 00002100: 7E 15 8B CE 8B C5 2B CD 8B D7 DA 04 01 DB 00 83  
 00002110: C0 04 4A DE C2 75 F3 DB 44 24 14 D9 5C 24 14 D8  
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 00002130: 24 14 8B 5C 24 20 89 03 DC 05 88 94 40 00 E8 BD  
 00002140: 61 00 00 8B 4C 24 24 89 01 8B 4C 24 28 85 C9 74  
 00002150: 60 8B 4C 24 2C 85 C9 74 58 85 FF 7E 32 8F 1B 8B  
 00002160: D5 2B F5 8B 0C 32 83 C2 04 24 2C B8 E9 0F AF E9  
 00002170: 8B 4A FC 89 6C 24 1C 2B C8 8B E9 0F AF E9 DA 44  
 00002180: 24 1C 89 6C 24 1C 4F DB 44 24 1C DE C2 75 D4 D8  
 00002190: 74 24 14 8B 54 24 28 8B 44 24 2C 5E 5D 5B 5F D9  
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 000021C0: C0 5F C3 90 90 90 90 90 90 90 90 90 90 90 90  
 000021D0: 83 EC 08 53 55 33 DB 56 57 89 5C 24 10 BD 60 5A  
 000021E0: D5 00 33 F6 8B FD 89 74 24 14 85 F6 74 77 81 FD  
 000021F0: 60 5A D5 00 74 6F DB 44 24 10 DB 44 24 14 D9 C1  
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 00002210: DF E0 F6 C4 01 75 09 DD D8 B8 FF FF 00 00 EB 05  
 00002220: E8 DB 60 00 00 DC 0D A8 94 40 00 66 89 07 DE F1  
 00002230: D9 E1 DC 15 A0 94 40 00 DF E0 F6 C4 01 75 14 8D  
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 00002250: 00 EB 24 E8 A8 60 00 00 8D 0C 33 66 89 04 4D 60  
 00002260: 5A D3 00 EB 12 8D 14 33 66 C7 07 00 00 66 C7 04  
 00002270: 55 60 5A D3 00 00 00 46 81 C7 00 02 00 00 81 FE  
 00002280: 00 01 00 00 89 74 24 14 0F 8C 5C FF FF FF FF 8B 74  
 00002290: 24 10 83 C5 02 46 81 C3 00 01 00 00 81 FD 60 5C  
 000022A0: D5 00 89 74 24 10 0F 8C 36 FF FF FF 5F 5E 5D 5B  
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 000022D0: 24 04 89 44 24 18 8B 44 24 40 55 56 8B 74 24 40  
 000022E0: 8B E8 2B F2 2B E9 57 8B DD 8B FE 85 C0 89 4C 24  
 000022F0: 1C 89 54 24 20 89 5C 24 18 97 D4 28 0F 8C 34  
 00002300: 02 00 00 3B 0D B0 FC D8 00 0F 8D 28 02 00 00 8B  
 00002310: 44 24 44 85 C0 0F 8C 1C 02 00 00 3B 15 AC FC D8  
 00002320: 00 0F 8D 10 02 00 00 85 C9 7D 52 F7 D9 85 C9 C7  
 00002330: 44 24 1C 00 00 00 00 89 4C 24 10 7E 40 8B 54 24  
 00002340: 38 8B 7C 24 3C 8B C1 2B FA 89 44 24 14 33 C9 85  
 00002350: F6 7E 18 8B 04 17 41 3B CE 66 C7 44 48 FE 40 00

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00002370: C2 04 48 89 44 24 14 75 D4 8B 54 24 40 8B 44 24  
00002380: 34 8B 4C 24 4C 3B C8 7C 45 2B C1 03 D8 3B DD 89  
00002390: 5C 24 18 7D 39 8B 44 24 38 8B 7C 24 3C 2B F8 8D  
000023A0: 14 98 8B C5 2B C3 33 C9 85 F6 7E 18 8B 1C 3A 41  
000023B0: 3B CE 66 C7 44 4B FE 40 00 8B 1A 66 C7 44 4B FE  
000023C0: 40 00 7C E8 83 C2 04 48 75 DC 8B 54 24 40 85 D2  
000023D0: 7D 55 8B C2 C7 44 24 20 00 00 00 F7 D8 85 ED  
000023E0: 89 44 24 24 7E 41 8B C2 8B 7C 24 3C 99 33 C2 89  
000023F0: 6C 24 40 2B C2 8B 54 24 38 2B FA 33 C9 85 C0 7E  
00002400: 18 8B 1C 3A 41 3B C8 66 C7 44 4B FE 40 00 8B 1A  
00002410: 66 C7 44 4B FE 40 00 7C E8 8B 4C 24 40 83 C2 04  
00002420: 49 89 4C 24 75 D4 8B 5C 24 30 8B 44 24 44 3B  
00002430: C3 7C 44 8B 54 24 48 8B CB 2B C8 03 D1 85 ED 89  
00002440: 54 24 48 7E 32 8B 4C 24 38 8B 54 24 3C 2B D1 8B  
00002450: 44 24 48 8B F8 3B FE 7D 18 8B 3C 11 40 3B C6 66  
00002460: C7 44 47 FE 40 00 8B 39 66 C7 44 47 FE 40 00 7C  
00002470: E8 83 C1 04 4D 75 D8 8B 44 24 18 8B 54 24 10 3B  
00002480: D0 0F 8D E2 00 00 00 8B 4C 24 3C 8B 74 24 20 8B  
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000024B0: 24 2C 2B DD 2B C2 8D 0C 8E 89 44 24 3C 89 4C 24  
000024C0: 40 8B 54 24 48 8B C1 8B 4C 24 24 3B CA 7D 3F 66  
000024D0: 8B 10 66 8B 70 01 8B 2C 3B 40 81 E2 FF FF 00 00  
000024E0: 81 E6 FF FF 00 00 83 C0 03 41 66 8B 14 55 60 5A  
000024F0: D5 00 66 89 54 4D FE 8B 17 66 8B 34 75 60 5A D3  
00002500: 00 66 89 74 4A FE 8B 54 24 48 3B CA 7C C1 8B 4C  
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00002520: 89 4C 24 40 89 44 24 3C 75 97 5F 5E 5D B8 01 00  
00002530: 00 00 5B 83 C4 18 C3 85 DB 7E 2E 8B 4C 24 38 8B  
00002540: 54 24 3C 2B D1 33 C0 85 FF 7E 18 8B 34 11 40 3B  
00002550: C7 66 C7 44 46 FE 40 00 8B 31 66 C7 44 46 FE 40  
00002560: 00 7C E8 83 C1 04 7B 75 DC 5F 5E 5D B8 01 00 00  
00002570: 00 5B 83 C4 18 C3 90 90 90 90 90 90 90 90 90  
00002580: 81 EC 38 04 00 00 53 55 8B AC 24 54 04 00 00 56  
00002590: 8B B4 24 5C 04 00 00 8B C5 99 0F AF EE 2B C2 57  
000025A0: 8B D8 8B C6 99 2B C2 8B 8C 24 58 04 00 00 8B F8  
000025B0: 8B 84 24 64 04 00 00 2B E8 33 C0 89 44 24 40 89  
000025C0: 44 24 3C 89 44 24 44 89 44 24 10 8D 46 FF 99 D1  
000025D0: FF 2B C2 2B CF D1 FB D1 F8 45 3B C1 89 5C 24 14  
000025E0: 89 7C 24 20 89 4C 24 38 0F 8D 12 02 00 00 8B 94  
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00002630: 2D 8B 7C 24 1C 2B F0 8B 9C 24 5C 04 00 00 33 C0  
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00002650: 4C 8C 48 04 3B C3 7C EE 83 C7 04 4E 75 D9 33 FF  
00002660: 33 F6 85 ED B8 FF 00 00 00 89 7C 24 44 89 74 24  
00002670: 40 7E 22 8D 8C 24 44 04 00 00 85 C0 7C 17 03 FE  
00002680: 48 89 7C 24 44 8B 31 83 E9 04 89 74 24 40 8D 14  
00002690: 37 3B D5 7C E5 8D 48 01 8B 84 24 5C 04 00 00 8B  
000026A0: 5C 24 14 48 99 2B C2 8B 94 24 54 04 00 00 2B D3  
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000026C0: C2 89 44 24 18 89 54 24 28 0F 8D FA 00 00 00 8B  
000026D0: 54 24 2C 8B 12 88 0C 02 8B 44 24 34 8B 54 24 10  
000026E0: 3B D0 7D 7F 8B 5C 24 1C 8B CA 2B C1 8B 13 8B 7C  
000026F0: 24 24 33 C9 8A 0C 3A 8B 74 8C 48 4E 89 74 8C 48  
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00002710: FF 4C 24 40 8B B4 24 5C 04 00 00 03 D7 33 C9 8A  
00002720: 0C 32 8B D1 8B 7C 94 48 47 89 7C 94 48 8B 4C 24  
00002730: 3C 3B D1 7E 0B 8B 7C 24 44 47 89 7C 24 44 EB 15  
00002740: 75 0F 8B 74 24 40 8B 7C 24 44 46 89 74 24 40 EB  
00002750: 08 8B 7C 24 44 8B 74 24 40 83 C3 04 48 75 8D 8B  
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00002770: 89 4C 24 3C 8B 74 8C 48 2B FE 89 74 24 40 3B FD  
00002780: 89 7C 24 44 7D E1 8D 14 37 3B D5 7D 1E 85 C9 7C  
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000027C0: 44 24 18 0F 8C 06 FF FF FF 8B 54 24 2C 8B 7C 24  
000027D0: 10 47 8B 32 83 C2 04 89 7C 24 10 89 54 24 2C 88  
000027E0: 0C 06 8B 74 24 1C 8B 44 24 30 83 C6 04 48 89 74  
000027F0: 24 1C 89 44 24 30 0F 85 13 FE FF FF 8B 7C 24 20  
00002800: 8B AC 24 54 04 00 00 8B C3 8B CD 2B CB 3B D9 89  
00002810: 4C 24 28 7D 67 85 FF 7E 5E 8B 94 24 50 04 00 00

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00002820: 8B B4 24 58 04 00 00 8B 7C 24 20 8B CA 8D 74 B2  
00002830: FC EB 07 8B 94 24 50 04 00 00 8B 5C 24 20 83 C1  
00002840: 04 83 EE 04 4F 8B 14 9A 8B 59 FC BA 14 02 88 14  
00002850: 18 8B 94 24 50 04 00 00 8B 5C 24 38 8B 54 9A FC  
00002860: 8B 5E 04 8A 14 02 88 14 03 75 C8 8B 5C 24 14 8B  
00002870: 4C 24 28 8B 7C 24 20 40 3B C1 7C 99 8B BC 24 58  
00002880: 04 00 00 85 FF 7E 31 8B B4 24 50 04 00 00 33 C9  
00002890: 85 DB 7C 1E 8B 06 8A 54 18 01 88 14 08 8B 06 8B  
000028A0: D0 2B C1 2B D3 41 3B CB 8A 54 2A FE 88 54 28 FF  
000028B0: 7E E2 83 C6 04 4F 75 D6 5F 5E 5D 5B 81 C4 38 04  
000028C0: 00 00 C3 90 90 90 90 90 90 90 90 90 90 90 90  
000028D0: 53 56 8B 74 24 18 BA 01 00 00 00 57 8B 7C 24 14  
000028E0: 8D 46 FF 3B C2 7E 77 8B 44 24 18 8B 5C 24 10 55  
000028F0: 8D 68 FF B8 01 00 00 3B E8 7E 59 8B 4C 93 FC  
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00002910: 00 74 36 8B 0C 93 03 C8 80 79 FF 00 74 2B 80 39  
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00002A20: E8 8B 44 24 34 83 C2 04 48 89 44 24 34 75 D4 8D  
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00002A60: 7C 24 1C 45 8D 04 73 3B E8 7C CD 8B 44 24 58 85  
00002A70: C0 7E 4D 8B 4C 24 10 8B 6C 24 4C 89 44 24 34 8D  
00002A80: 14 B1 89 54 24 4C 33 C9 85 DB 7E 1B 8B 45 00 8B  
00002A90: 7C 24 4C 8D 14 31 8A 04 08 8B 3F 41 3B CB 88 04  
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00002AB0: C5 04 83 C1 04 48 89 4C 24 4C 89 44 24 34 75 C6  
00002AC0: 85 FF 7E 1F 8B 54 24 2C 8D 0C 73 33 C0 85 C9 7E  
00002AD0: 0C 8B 2A 40 3B C1 C6 44 28 FF 00 7C F4 83 C2 04  
00002AE0: 4F 75 E5 5D 2C 73 33 FF 85 ED 7E 41 8B 44 24 14  
00002AF0: 8B 4C 24 5C C7 00 00 00 00 85 C9 7E 24 8B 6C  
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00002B10: 39 8B 08 03 CA 89 08 8B 4C 24 4C 89 4C 24 4C  
00002B20: 75 E4 47 8D 2C 73 83 C0 04 3B FD 7C C3 8B 44 24  
00002B30: 1C 8B FE 8B C8 89 7C 24 24 2B CE 49 3B F1 89 4C  
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00002B50: 44 24 28 8B 44 24 5C 33 C9 33 D2 3B C1 89 54 24  
00002B60: 30 89 4C 24 18 89 4C 24 4C 7E 5C 8B 5C 24 10 8B  
00002B70: C7 2B C6 8B 6C 24 14 8B 04 83 89 44 24 38 8B 44  
00002B80: 24 28 8B 00 89 44 24 34 8B 5C 24 38 33 C0 83 C5  
00002B90: 04 8A 04 0B 8B 5C 24 4C 03 D8 33 C0 89 5C 24 4C  
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00002BB0: 5C 89 5C 24 18 8B 5D FC 03 D3 41 3B C8 7C C9 8B  
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00002BE0: EF 8D 1C B5 00 00 00 2B EE 8D 04 F0 89 5C 24  
00002BF0: 20 89 44 24 34 8B 44 24 4C 85 C0 75 6A 8B 44 24  
00002C00: 18 85 C0 75 62 8B 44 24 24 2B C3 8B 5C 24 14 83  
00002C10: 3C 18 00 75 52 8B 44 24 34 83 38 00 75 49 85 D2  
00002C20: 74 45 8D 04 37 3B E8 7D 3E 8B 7C 24 2C 8B D1 2B  
00002C30: D6 2B C5 89 54 24 3C 8D 1C 31 8D 3C AF 89 44 24  
00002C40: 38 3B D3 7D 10 8B 07 42 3B D3 C6 44 10 FF FF 7C  
00002C50: F4 8B 54 24 3C 8B 44 24 38 83 C7 04 48 89 44 24  
00002C60: 38 75 DE 8B 7C 24 24 8B 54 24 10 33 DB 8B 14 AA  
00002C70: 8B C2 03 D1 2B C6 8A 1C 08 33 C0 8A 44 32 01 8D  
00002C80: 14 37 2B C3 8B 5C 24 4C 03 D8 8B 44 24 10 89 5C  
00002C90: 24 4C 33 DB 8B 14 90 8D 3C 31 8B C2 03 D1 2B C6  
00002CA0: 8A 1C 08 33 C0 8A 44 32 01 8B 54 24 20 2B C3 8B  
00002CB0: 5C 24 18 03 D8 8B 44 24 14 89 5C 24 18 8D 1C B5  
00002CC0: 00 00 00 00 8B 7C B8 04 2B D3 2B 3C 02 8B 54 24  
00002CD0: 30 B8 04 00 00 00 03 D7 8B 7C 24 20 03 F8 41 89

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00002D10: 24 10 8B CF 2B CE 8D 0C 88 89 4C 24 4C 8B 4C 24  
00002D20: 14 8B 44 24 4C 33 DB 83 C1 04 8B 00 8A 1C 10 8B  
00002D30: 41 FC 2B C3 33 DB 89 41 FC 8B 44 24 28 8B 40 04  
00002D40: 8A 1C 10 8B 41 FC 03 D8 42 89 59 FC 3B D5 7C D1  
00002D50: 8B 5C 24 54 8B 4C 24 28 8B 44 24 44 47 83 C1 04  
00002D60: 3B F8 89 7C 24 24 89 4C 24 28 0F SC E3 FD FF FF  
00002D70: 8B 44 24 1C 85 C0 7E 36 8B 4C 24 10 8B 54 24 C2  
00002D80: 2B D1 89 44 24 5C 33 C0 85 ED 7E 14 8B 3C 0A 80  
00002D90: 3C 07 FF 75 06 8B 39 C6 04 07 00 40 3B C5 7C EC  
00002DA0: 8B 44 24 5C 83 C1 04 48 89 44 24 5C 75 D8 8B 54  
00002DB0: 24 58 85 D2 7E 3D 8B 4C 24 10 8B 6C 24 50 89 54  
00002DC0: 24 5C 8D 3C B1 33 C9 85 DB 7E 17 8B 17 8B 45 00  
00002DD0: 03 D1 41 3B CB 8A 14 32 88 54 08 FF 7C ED 8B 54  
00002DE0: 24 58 8B 44 24 5C 83 C7 04 83 C5 04 48 89 44 24  
00002DF0: 5C 75 D2 33 C0 85 DB 7E 19 8B 4C 24 50 40 3B C3  
00002E00: 8B 74 91 F8 8B 7C 91 FC 8A 4C 30 FF 88 4C 07 FF  
00002E10: 7C E7 85 D2 7E 18 8B 74 24 50 8B FA 8B 16 83 C6  
00002E20: 04 4F 8A 4C 13 FE 8D 04 13 88 48 FF 75 EE 8B 54  
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00002E40: 56 50 E8 A9 39 00 00 8B 4C 24 1C 56 51 E8 9E 39  
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00002E60: 55 56 57 8B 7C 24 14 57 E8 E3 38 00 00 8B 74 24  
00002E70: 14 83 C4 04 85 FF DB 06 8B E8 D9 C0 D8 0D C4 94  
00002E80: 40 00 D9 5C 24 14 D8 0D C0 94 40 00 D8 44 24 14  
00002E90: 7E 51 8B CD 8B C6 2B CE 8B D7 DB 00 83 C0 04 4A  
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00002EB0: 54 24 10 D8 0D B8 94 40 00 D9 C9 D8 0D B4 94 40  
00002EC0: 00 DE E9 D8 44 24 14 D9 44 24 10 D8 0D BC 94 40  
00002ED0: 00 D9 44 01 FC D8 0D B0 94 40 00 DE E9 D9 54 C2  
00002EE0: 14 75 B7 DD D8 DB 44 BE FC 8D 4F FF 85 C9 D9 54  
00002EF0: 24 14 D8 0D C4 94 40 00 D9 44 24 14 D8 0D C0 94  
00002F00: 40 00 D8 C1 D9 5C 24 14 7C 47 8D 44 8D 00 41 D9  
00002F10: 00 D9 C0 D8 0D BC 94 40 00 83 E8 04 49 D9 54 24  
00002F20: 10 D8 44 24 14 D9 50 04 D9 C9 D8 0D B8 94 40 00  
00002F30: D9 C9 D8 0D B4 94 40 00 DE E9 D8 C1 D9 5C 24 14  
00002F40: DD D8 D9 40 04 D8 0D B0 94 40 00 D8 6C 24 10 75  
00002F50: BE 85 FF DD D8 7E 16 53 8B DD 2B DE D9 04 1E E8  
00002F60: 9C 53 00 00 89 06 83 C6 04 4F 75 F0 5B 55 E8 BD  
00002F70: 38 00 00 83 C4 04 5F 5E 5D C3 90 90 90 90 90  
00002F80: A1 34 B0 40 00 83 EC 68 85 C0 53 8B 1D 00 93 40  
00002F90: 00 55 8B 2D 04 93 40 00 56 8B 35 C4 92 40 00 57  
00002FA0: 8B 3D 10 93 40 00 74 7A 8D 44 24 10 50 FF D6 8D  
00002FB0: 4C 24 14 51 FF D7 50 68 C8 B1 40 00 8D 54 24 24  
00002FC0: 6A 64 52 FF D3 8D 44 24 2C 50 68 A0 B1 40 00 68  
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00002FE0: 1C BC 40 00 FF D5 83 C4 2C A3 18 BC 40 00 85 C0  
00002FF0: 75 1C 50 68 90 B1 40 00 68 7C B1 40 00 50 FF 15  
00003000: 5C 93 40 00 5F 5E 5D 33 C0 5B 83 C4 68 C3 50 FF  
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00003030: 50 68 70 B1 40 00 8D 44 24 24 6A 64 50 FF D3 68  
00003040: 6C B1 40 00 68 1C BC 40 00 FF D5 83 C4 20 A3 18  
00003050: BC 40 00 85 C0 75 1C 50 68 90 B1 40 00 68 7C B1  
00003060: 40 00 50 FF 15 5C 93 40 00 5F 5E 5D 33 C0 8B 83  
00003070: C4 68 C3 8B 0D 20 FF D7 00 8D 54 24 14 52 8B 14  
00003080: 8D 1C DF D7 00 52 8B 14 8D 1C EF D7 00 52 51 68  
00003090: 44 B1 40 00 50 FF 15 EC 92 40 00 A1 18 BC 40 00  
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000030D0: DB 55 56 3B C3 57 7E 51 BE F8 BC 40 00 BA 90 00  
000030E0: C1 00 8B F8 BD 00 00 F0 3F B9 01 00 00 00 89 5E  
000030F0: F0 89 6E F4 89 4C 24 10 89 54 24 14 8B C6 DB 44  
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00003110: C0 D9 FE DD 58 E8 D9 FF DD 58 F0 7E E1 83 C2 08  
00003120: 81 C6 A8 00 00 00 4F 75 C0 6A 15 6A 01 6A 15 6A  
00003130: 01 E8 AA E7 FF FF 6A 15 6A 01 8B E8 E8 4E E7 FF  
00003140: FF 83 C4 18 89 44 24 10 BF 08 00 00 00 B9 E8 BC  
00003150: 40 00 2B CF 89 4C 24 14 8B 54 9D 04 8B C7 03 C2  
00003160: 33 F6 89 30 89 70 04 A1 10 50 D3 00 85 C0 7E 30  
00003170: 8D 14 DD E8 BC 40 00 03 CF DD 01 8B 44 9D 04 81  
00003180: C1 A8 00 00 00 DC 0A 03 C7 46 81 C2 A8 00 00 00  
00003190: DC 00 DD 18 3B 35 10 50 D3 00 7C DD 8B 4C 24 14

APPENDIX-continued

000031A0: 83 C7 08 81 FF B0 00 00 00 7C AD 43 83 FB 15 7C  
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000031C0: 30 89 70 04 39 35 10 50 D3 00 7E 21 BA 10 1B C7  
000031D0: 00 8B CF DD 02 DC 09 46 81 C1 A8 00 00 00 83 C2  
000031E0: 08 DC 00 DD 18 3B 35 10 50 D3 00 7C E6 83 C7 08  
000031F0: 83 C0 08 81 FF 90 BD 40 00 7C C2 8B 74 24 10 6A  
00003200: 15 68 E8 FF C0 00 56 55 E8 43 EE FF FF 6A 15 6A  
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00003220: E8 9B E7 FF FF 83 C4 30 B8 01 00 00 5F 5E 5D  
00003230: 5B 8B E5 5D C3 90 90 90 90 90 90 90 90 90 90  
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00003250: 55 56 57 E8 AE 80 00 00 E8 A3 50 00 00 8B 5C 24  
00003260: 30 8B 7C 24 2C 8B F0 53 57 89 74 24 28 E8 EE 33  
00003270: 00 00 53 57 89 44 24 28 E8 E3 33 00 00 53 57 89  
00003280: 44 24 44 E8 D8 33 00 00 56 89 44 24 2C E8 4E 34  
00003290: 00 00 56 89 44 24 34 E8 44 34 00 00 83 C4 20 8B  
000032A0: E8 85 F6 89 6C 24 1C 7E 1F 8B 44 24 14 8B CD 8B  
000032B0: D0 2B CA 8B D6 C7 04 01 00 00 00 00 C7 00 00 00  
000032C0: 00 00 83 C0 04 4A 75 ED 33 C9 85 DE 7E 4A 8B 74  
000032D0: 24 18 8B 6C 24 28 33 C0 85 FF 7E 2C 8B 15 20 50  
000032E0: D3 00 8B 1D 28 50 D3 00 03 D1 0F AF 15 AC FC D8  
000032F0: 00 03 D3 8B 1E 03 D0 40 3B C7 8A 54 95 01 88 54  
00003300: 03 FF 7C D8 8B 5C 24 30 41 83 C6 04 3B CB 7C C6  
00003310: 8B 74 24 20 8B 6C 24 1C A1 DC B1 40 00 85 C0 74  
00003320: 14 8B 44 24 18 53 57 50 68 D0 B2 40 00 E8 5E 35  
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00003390: 74 14 8B 44 24 10 53 57 50 68 70 B2 40 00 E8 ED  
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000033B0: 24 10 8B C6 89 5C 24 28 2B E8 33 C0 85 FF 7E 2A  
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000033D0: 2B D3 83 FA 0F 0F 9E C2 4A 81 E2 FF 00 00 00 40  
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000033F0: 04 48 89 44 24 28 75 C2 8B 74 24 20 8B 6C 24 1C  
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00003420: 10 8B 54 24 2C 53 57 51 52 E8 A2 F4 FF FF A1 DC  
00003430: B1 40 00 83 C4 10 85 C0 74 14 8B 44 24 10 53 57  
00003440: 50 68 10 B2 40 00 E8 45 34 00 00 83 C4 10 8B 4C  
00003450: 24 2C 8B 54 24 10 6A 3D 53 57 51 52 E8 4F F5 FF  
00003460: FF A1 DC B1 40 00 83 C4 10 85 C0 74 14 8B 44 24  
00003470: 2C 53 57 50 68 E0 B1 40 00 E8 12 34 00 00 83 C4  
00003480: 10 33 D2 85 DB 7E 55 33 C0 85 FF 7E 4A 8B 4C 24  
00003490: 2C 8B 0C 91 80 3C 01 FF 75 38 8B 0D E4 BC 40 00  
000034A0: 33 ED 8B 0C 91 66 8B 2C 41 8B 4C 24 14 8D 0C A9  
000034B0: 8B 29 45 89 29 8B 0D E0 BC 40 00 33 ED 8B 0C 91  
000034C0: 66 8B 2C 41 8B CD 8B 6C 24 1C FF 44 8D 00 8D 4C  
000034D0: 8D 00 40 3B C7 7C B6 42 3B D3 7C AB 8B 44 24 14  
000034E0: 56 C7 45 00 00 00 00 00 50 C7 00 00 00 00 00 E8  
000034F0: 6C F9 FF FF 56 55 E8 65 F9 FF FF 8B 15 10 BC 40  
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00003510: 04 90 40 00 33 D2 33 C0 85 F6 7E 12 8B 4C 24 14  
00003520: 39 11 7E 02 8B D0 40 83 C1 04 3B C6 7C F2 33 C0  
00003530: 3B F0 89 44 24 30 7E 16 8B CD 8B 54 24 30 39 11  
00003540: 7E 04 89 44 24 30 40 83 C1 04 3B C6 7C EC 33 F6  
00003550: 3B DE 89 35 10 50 D3 00 89 74 24 28 0F 8E 86 00  
00003560: 00 00 8B 6C 24 2C A1 E0 BC 40 00 8B CD 2B C1 89  
00003570: 44 24 20 33 C9 85 FE 7E 5B 81 FE 50 C3 00 00 7D  
00003580: 4E 8B 44 24 20 8B 14 28 33 C0 66 8B 04 4A 8B 54  
00003590: 24 30 2B C2 99 33 C2 2B C2 83 F8 1E 7F 31 8B 45  
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000035C0: C2 89 04 B5 90 35 CD 00 46 89 35 10 50 D3 00 41  
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000035E0: 24 28 7C 8F 8B 6C 24 1C 8B 44 24 18 53 50 E8 FD  
000035F0: 31 00 00 8B 4C 24 34 53 51 E8 F2 31 00 00 8B 54  
00003600: 24 20 53 52 E8 E7 31 00 00 8B 44 24 2C 50 E8 1D  
00003610: 32 00 00 55 E8 17 32 00 00 83 C4 20 B8 01 00 00  
00003620: 00 5F 5E 5D 5B 83 C4 14 C3 90 90 90 90 90 90 90  
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00003640: B9 01 00 00 00 89 44 24 08 C7 06 00 00 00 00 DB  
00003650: 44 24 08 C7 46 04 00 00 F0 3F 89 4C 24 08 8D 46

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00003660: 10 DC 0D D8 94 40 00 DB 44 24 08 41 83 C0 10 83
00003670: F9 0A 89 4C 24 08 D8 C9 D9 C0 D9 FE DD 58 E8 09
00003680: FF DD 58 F0 7E E1 DD 05 90 94 40 00 B8 E8 FF C0
00003690: 00 DD 06 DC 08 83 C0 08 83 C6 08 3D 90 00 C1 00
000036A0: DE C1 7C ED D9 C1 D9 FF D8 C9 DA 05 18 50 D3 00
000036B0: DC 05 88 94 40 00 E8 45 4C 00 00 D9 C9 D9 FE 89
000036C0: 04 BD 48 FA C0 00 D8 C9 DA 05 14 50 D3 00 DC 05
00003600: 88 94 40 00 E8 27 4C 00 00 89 04 BD A8 F4 C0 00
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000036F0: B8 01 00 00 05 5E 59 C3 90 90 90 90 90 90 90
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00003720: 50 D3 00 2B F1 57 2B DA 56 53 33 FF E8 AF 2E 00
00003730: 00 56 53 A3 E4 BC 40 00 E8 A3 2E 00 00 8B 0D 1C
00003740: 50 D3 00 8B 15 20 50 D3 00 51 8B 0D 24 50 D3 00
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00003770: 50 E8 4A EB FF FF 8B 4D 08 56 53 51 E8 BF FA FF
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00003790: 00 A1 E0 BC 40 00 56 50 E8 53 30 00 00 A1 10 50
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000037C0: 0C 00 00 00 5F 5E 5B 8B E5 5D C3 6A 00 6A 00 68
000037D0: 14 50 D3 00 68 18 50 D3 00 68 90 35 CD 00 68 D0
000037E0: 42 D0 00 50 E8 E7 E8 FF FF 8B 15 10 50 D3 00 83
000037F0: C4 1C 85 D2 7E 60 33 C0 85 D2 7E 5A 8B 35 14 50
00003800: D3 00 8B 0C 85 D0 42 D0 00 8B 1D 18 50 D3 00 2B
00003810: CB 89 4C 24 10 8B 0C 85 90 35 CD 00 2B CE 8B D9
00003820: 89 4C 24 14 0F AF D9 DB 44 24 10 89 5C 24 10 00
00003830: DB 44 24 10 D9 C1 D8 CA 3B C2 DE C1 D9 FA DD 1C
00003840: C5 08 1B C7 00 DB 44 24 14 D9 C9 D9 F3 DD 1C C5
00003850: 88 00 C1 00 7C AC E8 65 F8 FF FF 85 C0 75 07 5F
00003860: 5E 5B 8B E5 5D C3 A1 10 50 D3 00 33 F6 85 C0 0F
00003870: 8E 8B 00 00 00 DB 04 B5 90 35 CD 00 6A 3C 83 EC
00003880: 08 DD 1C 24 DB 04 B5 D0 42 D0 00 83 EC 08 DD 1C
00003890: 24 E8 6A E6 FF FF 83 C4 14 85 C0 74 55 8B 04 B5
000038A0: 90 35 CD 00 8B 14 B5 D0 42 D0 00 8B 0C F5 10 1B
000038B0: C7 00 89 04 BD 90 35 CD 00 8B 04 F5 90 00 C1 00
000038C0: 89 14 BD D0 42 D0 00 89 0C FD 10 1B C7 00 8B 14
000038D0: F5 14 1B C7 00 89 04 FD 90 00 C1 00 8B 0C F5 94
000038E0: 00 C1 00 89 14 FD 14 1B C7 00 89 0C FD 94 00 C1
000038F0: 00 47 A1 10 50 D3 00 46 3B F0 0F 8C 75 FF FF FF
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00003940: 20 8D 54 24 20 BE B0 99 D7 00 83 3E 01 75 06 89
00003950: 02 41 83 C2 04 83 C6 5C 3B C7 7C ED 89 4C 24
00003960: 10 3B CD 0F 8E 1A 01 00 00 8D 7C 24 20 89 4C 24
00003970: 14 BB 00 00 F0 3F 8B 0F 83 C7 04 8B C1 8D 34 49
00003980: C1 E6 03 2B F1 C1 E6 02 C1 E0 07 DB 86 58 99 D7
00003990: 00 C1 E1 04 DD 90 10 52 D3 00 DB 86 5C 99 D7 00
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000039B0: D3 00 89 99 1C 51 D3 00 DD 5C 24 18 8B 54 24 18
000039C0: 8B 74 24 1C 89 90 18 52 D3 00 89 B0 1C 52 D3 00
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000039E0: D3 00 89 A8 3C 52 D3 00 89 A8 30 52 D3 00 89 A8
000039F0: 34 52 D3 00 89 A8 28 52 D3 00 89 A8 2C 52 D3 00
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00003A80: 4C 24 10 33 F6 89 6C 24 14 BB 08 00 00 00 A1 9C
00003A90: FB D8 00 3B CD 8B 54 B0 04 89 2C IA 89 6C 1A 04
00003AA0: 7E 75 8D 6C 24 20 89 4C 24 18 8B 45 00 8B 4C 24
00003AB0: 14 C1 E0 04 8B 3D 9C FB D8 00 03 C8 8D 14 30 83
00003AC0: C5 04 C1 E2 03 8B 7C B7 04 DD 82 10 52 D3 00 C1
00003AD0: E1 03 03 FB DC 89 10 52 D3 00 DC 88 10 51 D3 00
00003AE0: DC 07 DD 1F DD 82 50 52 D3 00 8B 3D 9C FB D8 00
00003AF0: DC 89 50 52 D3 00 8B 7C B7 04 03 FB DC 88 18 51
00003B00: D3 00 8B 44 24 18 48 DC 07 89 44 24 18 DD 1F 75
00003B10: 99 8B 4C 24 10 33 ED 8B 7C 24 14 83 C3 08 47 83

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00003B30: 0F 8C 4F FF FF FF 33 DB BF 08 00 00 00 8B 15 98
00003B40: FB D8 00 3B CD 89 2C 17 A1 98 FB D8 00 89 6C 07
00003B50: 04 7E 71 8D 6C 24 20 89 4C 24 15 8B 55 00 83 C5
00003B60: 04 8B CA 8D 04 52 C1 E0 03 C1 E1 04 2B C2 8B 15
00003B70: 98 FB D8 00 8D 34 19 C1 E0 02 C1 E6 03 D9 80 78
00003B80: 99 D7 00 DC 8E 10 52 D3 00 DC 89 10 51 D3 00 DC
00003B90: 04 17 DD 1C 17 D9 80 7C 99 D7 00 DC 8E 50 52 D3
00003BA0: 00 8B 15 98 FB D8 00 8B 44 24 18 48 DC 89 18 51
00003BB0: D3 00 89 44 24 18 DC 04 17 DD 1C 17 75 9D 8B 4C
00003BC0: 24 10 33 ED 83 C7 08 43 83 FF 48 0F 8C 6C FF FF
00003BD0: FF 8B 0D 98 FB D8 00 8B 15 9C FB D8 00 6A 08 68
00003BE0: 18 5A D3 00 51 52 E8 65 E4 FF FF DD 05 38 5A D3
00003BF0: 00 DC 0D 18 5A D3 00 DD 05 50 5A D3 00 DC 0D 40
00003C00: 5A D3 00 83 C4 10 B8 01 00 00 00 DC 0D 18 5A D3
00003C10: 00 5F 5E DE E9 DD 05 20 5A D3 00 DC 0D 30 5A D3
00003C20: 00 DE E9 DD 05 28 5A D3 00 DC 0D 30 5A D3 00 DC
00003C30: 0D 50 5A D3 00 DE C1 DD 05 48 5A D3 00 DC 0D 20
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00003C50: 00 DC 0D 28 5A D3 00 DC 0D 38 5A D3 00 DE E9 DD
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00003CF0: 8B 44 24 28 8B 0D 64 5A D7 00 33 FF 8D 50 64 83
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00003D10: 24 2C 51 8B 4C 24 2C 52 50 51 33 DB E8 9F E8 FF
00003D20: FF A1 60 5A D7 00 8B 0D 64 5A D7 00 83 C4 24 2B
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00003D40: 00 00 00 EB 04 8B 4C 24 20 8B 16 8B 0C 31 2B CA
00003D50: 8D 82 C2 00 00 00 BA 07 00 00 00 33 ED 66 8B 2C
00003D60: 01 83 C0 02 03 FD 33 ED 66 8B 68 FE 03 DD 4A 75
00003D70: EA 8B 44 24 24 83 C6 04 48 89 44 24 24 75 C6 8B
00003D80: 44 24 28 89 7C 24 24 DB 44 24 8D 14 40 89 5C
00003D90: 24 20 C1 E2 03 DC 0D E8 94 40 00 2B D0 8B 44 24
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00003DB0: DC 0D E8 94 40 00 8B 45 45 00 00 89 46 34 8B 4E
00003DC0: 30 89 4E 38 8B 56 34 89 56 3C 5F DB 46 30 B8 01
00003DD0: 00 00 00 D9 5E 40 DB 46 34 D9 5E 44 5E 5D 5B C3
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00003DF0: 35 60 5A D7 00 57 33 FF 2B C6 89 7C 24 15 89 7C
00003E00: 24 14 89 7C 24 10 89 44 24 1C 33 C9 81 FF D0 07
00003E10: 00 00 0F 8D 90 00 00 00 8B 54 24 8D 14 40 89 5C
00003E20: E0 03 2B C3 8D 2C 82 8B 44 24 1C 8B 14 30 33 C0
00003E30: 66 8B 04 4A 8B 55 30 2B C2 99 33 C2 2B C2 83 F8
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00003E50: 2B C2 99 33 C2 2B C2 83 F8 0F 7F 4C 8B 44 24 30
00003E60: 8B 6C 24 14 47 8D 54 01 9C 8B 44 24 10 89 14 BD
00003E70: A4 79 D7 00 8B 54 24 34 8D 44 02 9C 8B 54 24 1C
00003E80: 89 04 BD 64 5A D7 00 8B 04 32 33 D2 66 8B 14 48
00003E90: 8B 06 03 EA 33 D2 66 8B 14 48 8B 44 24 18 03 C2
00003EA0: 89 6C 24 14 89 44 24 18 41 81 F9 C8 00 00 00 0F
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00003EF0: 18 99 F7 FF 8B C8 89 4E 4C 8B 46 48 8B 56 38 89
00003F00: 44 24 38 2B C2 99 33 C2 2B C2 83 F8 0F 7F 62 8B
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00003F40: 00 D9 46 44 D8 0D F0 94 40 00 DE C1 D9 5E 44 D9
00003F50: 46 40 DC 05 88 94 40 00 E8 A3 43 00 00 89 46 38
00003F60: D9 46 44 DC 05 88 94 40 00 E8 92 43 00 00 89 46
00003F70: 3C 8B 44 24 3C 8D 14 8B C1 E2 03 2B D3 81 FF D0
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00003F90: 00 5B 83 C4 10 C3 33 C0 83 FF 50 0F 9F C0 48 5F
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00003FB0: 8B 44 24 14 8B 4C 24 10 8B 54 24 0C 53 8B 5C 24
00003FC0: 0C 55 8B 6C 24 24 57 8B 7C 24 24 55 57 50 8B 44
00003FD0: 24 1C 51 52 53 50 E8 05 FE FF FF 83 C4 1C 83 F8

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00004010: 54 24 2C 51 8D 44 24 34 8B 4E 50 52 50 68 68 5A  
00004020: D7 00 68 A8 79 D7 00 51 E8 A3 E0 FF FF 83 C4 1C  
00004030: 83 F8 01 0F 85 9F 00 00 00 8B 4C 24 2C 83 F9 0F  
00004040: 0F 8E 92 00 00 00 83 C3 F1 3B CB 0F 8D 87 00 00  
00004050: 00 8B 5C 24 28 83 FB 0F 7E 7E 8B 54 24 1C 83 C2  
00004060: F1 3B DA 7D 73 8B 46 10 2B C1 99 33 C2 2B C2 8B  
00004070: 15 FC B2 40 00 3B C2 7C 0D C7 05 30 FF D7 00 01  
00004080: 00 00 00 89 4E 10 8B 46 14 8B 0D FC B2 40 00 2B  
00004090: C3 99 33 C2 2B C2 3B C1 7C 0D C7 05 30 FF D7 00  
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000040B0: 24 20 55 57 D9 5E 20 DB 46 14 D9 5E 24 89 46 28  
000040C0: 89 4E 2C E8 A8 FB FF FF 83 C4 08 83 F8 01 75 08  
000040D0: 89 46 58 5E 5F 5D 5B C3 C7 46 58 00 00 00 00 5E  
000040E0: 5F 5D B8 01 00 00 00 5B C3 90 90 90 90 90 90 90  
000040F0: A1 54 99 D7 00 8B 4C 24 08 53 8B 5C 24 14 8B 54  
00004100: 24 08 55 8B 6C 24 14 56 57 8B 7C 24 24 68 58 99  
00004110: D7 00 50 57 53 55 51 52 E8 C3 FB FF FF 8B F0 83  
00004120: C4 1C 83 FE 01 75 22 A1 54 99 D7 00 8B 4C 24 18  
00004130: 8B 54 24 14 68 58 99 D7 00 50 57 53 55 51 52 E8  
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000041F0: 65 00 51 D3 00 FF D5 83 C4 04 A1 50 B3 40 00 89  
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000042D0: 33 FF 85 C0 7E 30 BE 5C 99 D7 00 8B 46 54 85 C0  
000042E0: 75 17 8B 0E 8B 56 FC 51 8D 46 10 52 8D 4E 0C 50  
000042F0: 51 E8 6A DB FF FF 83 C4 10 A1 54 99 D7 00 47 83  
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00004320: D5 A1 F0 50 D3 00 8B 2D 00 51 D3 00 8B 15 28 FF  
00004330: D7 00 2B C5 8B 0D 04 51 D3 00 83 C4 04 8D 04 80  
00004340: 81 E1 FF FF 00 00 52 8B 15 F4 50 D3 00 8D 04 80  
00004350: 81 E2 FF FF 00 00 83 EC 08 8D 04 80 C1 E0 03 2B  
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00004380: 68 2C B3 40 00 68 A0 50 D3 00 FF 15 14 93 40 00  
00004390: 83 C4 14 C7 05 18 9F D7 00 00 00 00 00 A1 48 FC  
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000043C0: 94 C0 59 C3 8B 0D 10 BC 40 00 6A 00 6A 00 68 02  
000043D0: 04 00 00 51 C7 05 44 99 D7 00 01 00 00 00 FF 15  
000043E0: 78 93 40 00 5F 5E 5D 33 C0 5B 59 C3 90 90 90 90  
000043F0: A1 8C 50 D3 00 85 C0 74 7B DD 44 24 0C DC 1D E0  
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00004410: FD 89 44 24 18 DB 44 24 18 DC 5C 24 0C DF E0 F6  
00004420: C4 41 75 50 DD 44 24 04 DC 1D E0 94 40 00 DF E0  
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00004440: DB 44 24 18 DC 5C 24 04 DF E0 F6 C4 41 75 25 8B  
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000044D0: 24 24 DD 5C 24 28 8B 44 24 2C 8B 4C 24 28 50 8B  
000044E0: 44 24 24 51 52 50 E8 05 FF FF FF 83 C4 18 85 C0  
000044F0: 74 39 DD 44 24 18 DC 05 88 94 40 00 8B 1D 28 FF  
00004500: D7 00 E8 F9 3D 00 00 DD 44 24 20 DC 05 88 94 40  
00004510: 00 89 04 9D 1C EF D7 00 E8 E3 3D 00 00 89 04 9D  
00004520: 1C DF D7 00 43 89 1D 28 FF D7 00 33 C0 89 44 24  
00004530: 10 DD 44 24 18 DC 45 08 85 C0 DD 5C 24 18 0F 8C  
00004540: 30 03 00 00 40 89 44 24 14 DD 44 24 18 DC 64 24  
00004550: 28 56 57 DD 5C 24 20 DD 44 24 28 DC 64 24 38 8B  
00004560: 54 24 24 88 44 24 20 DD 5C 24 28 8B 5C 24 2C 8B  
00004570: 4C 24 28 53 51 52 50 E8 74 FE FF FF 83 C4 18 85  
00004580: C0 74 3F DD 44 24 18 DC 05 88 94 40 00 E8 6E 3D  
00004590: 00 00 DD 44 24 20 8B 0D 28 FF D7 00 DC 05 88 94  
000045A0: 40 00 89 04 8D 1C EF D7 00 E8 52 3D 00 00 8B 0D  
000045B0: 28 FF D7 00 89 04 8D 1C DF D7 00 41 89 0D 28 FF  
000045C0: D7 00 8B 44 24 14 48 89 44 24 14 0F 85 78 FF FF  
000045D0: FF 8B 54 24 10 8D 42 01 89 44 24 14 DD 44 24 18  
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000045F0: 4C 24 2C 8B 54 24 28 51 52 E8 F2 FD FF FF 83 C4  
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00004610: EC 3C 00 00 DD 44 24 20 8B 0D 28 FF D7 00 DC 05  
00004620: 88 94 40 00 89 04 8D 1C EF D7 00 E8 D0 3C 00 00  
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00004640: 28 FF D7 00 8B 44 24 14 48 89 44 24 14 75 8D 8B  
00004650: 54 24 10 8D 42 01 89 44 24 14 DD 44 24 18 DC 64  
00004660: 24 28 56 57 DD 5C 24 20 DD 44 24 28 DC 44 24 38  
00004670: 8B 54 24 24 DD 5C 24 28 8B 44 24 2C 8B 4C 24 28  
00004680: 50 8B 44 24 24 51 52 50 E8 63 FD FF FF 83 C4 18  
00004690: 85 C0 74 39 DD 44 24 18 DC 05 88 94 40 00 8B 1D  
000046A0: 28 FF D7 00 E8 57 3C 00 00 DD 44 24 20 DC 05 88  
000046B0: 94 40 00 89 04 9D 1C EF D7 00 E8 41 3C 00 00 89  
000046C0: 04 9D 1C DF D7 00 43 89 1D 28 FF D7 00 8B 44 24  
000046D0: 14 48 89 44 24 14 75 82 8B 4C 24 10 8D 41 01 89  
000046E0: 44 24 14 DD 44 24 18 DC 44 24 28 56 57 DD 5C 24  
000046F0: 20 DD 44 24 28 DC 44 24 38 8B 44 24 24 8B 4C 24  
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00004760: 48 89 44 24 14 0F 85 78 FF FF 8B 44 24 10 40  
00004770: 89 44 24 14 DD 44 24 18 DC 45 08 8B 4C 24 20 56  
00004780: 57 53 51 DD 5C 24 28 8B 54 24 2C 8B 44 24 25 52  
00004790: 50 E8 5A FC FF FF 83 C4 18 85 C0 74 3F DD 44 24  
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000047B0: 8B 0D 28 FE D7 00 DC 05 88 94 40 00 89 04 8D 1C  
000047C0: EF D7 00 E8 38 3B 00 00 8B 0D 28 FF D7 00 89 04  
000047D0: 8D 1C DF D7 00 41 89 0D 28 FF D7 00 8B 44 24 14  
000047E0: 48 89 44 24 14 75 8D 8B 54 24 10 8D 42 01 89 44  
000047F0: 24 14 DD 44 24 18 DC 44 24 28 56 57 DD 5C 24 20  
00004800: DD 44 24 28 DC 64 24 38 8B 54 24 24 DD 5C 24 28  
00004810: 8B 44 24 2C 8B 4C 24 28 50 8B 44 24 24 51 52 50  
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00004830: DC 05 88 94 40 00 8B 1D 28 FC D7 00 E8 BF 3A 00  
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000048D0: 44 24 10 DC 4C 24 30 DC 44 24 38 DD 5C 24 20 8B  
000048E0: 5C 24 24 DB 44 24 14 8B 4D 1C 8B 55 18 8B 44 24  
000048F0: 20 51 DC 4D 08 52 53 50 DC 44 24 50 DC 44 24 58  
00004900: DD 5C 24 28 8B 4C 24 2C 8B 54 24 28 51 52 E8 DD  
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00004920: 88 94 40 00 8B 35 28 FF D7 00 E8 D1 39 00 00 DD  
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00004990: A3 20 FF D7 00 C3 90 90 90 90 90 90 90 90 90  
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000049B0: 00 00 33 C0 C7 06 00 96 40 00 89 46 60 89 46 64  
000049C0: 89 46 68 89 46 6C 89 46 70 89 46 74 89 46 78 89  
000049D0: 46 7C 8B C6 5E C2 04 00 90 90 90 90 90 90 90  
000049E0: 56 8B F1 E8 38 C6 FF FF F6 44 24 08 01 74 09 56  
000049F0: E8 57 37 00 00 83 C4 04 8B C6 5E C2 04 00 90 90  
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00004A20: 00 00 F0 3F 6A 00 53 56 E8 49 37 00 00 8D 47 68  
00004A30: 50 68 FB 03 00 00 56 E8 34 37 00 00 8D 5F 6C 53  
00004A40: 68 FC 03 00 00 56 E8 1F 37 00 00 8B 0B 6A 0A 6A  
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00004A60: 00 56 E8 09 37 00 00 8D 47 74 50 68 FE 03 00 00  
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00004A90: 00 00 83 C7 7C 57 68 01 04 00 00 56 E8 ED 36 00  
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00004B80: 00 89 4E 78 8B 15 D8 B4 40 00 8B CE 89 56 7C E8  
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00004CC0: 10 93 40 00 50 68 C8 B1 40 00 8D 54 24 18 6A 64  
00004CD0: 52 FF 15 00 93 40 00 8D 44 24 20 8D 8C 24 84 00  
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00004E60: 01 00 00 C6 84 24 74 02 00 00 07 E8 B4 33 00 00  
00004E70: 8D 8C 24 A4 01 00 00 C6 84 24 74 02 00 06 E8  
00004E80: A0 33 00 00 8D 8C 24 64 01 00 00 C6 84 24 74 02  
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00004EB0: 00 00 00 C6 84 24 74 02 00 00 03 E8 64 33 00 00  
00004EC0: 8D 8C 24 A4 00 00 00 C6 84 24 74 02 00 02 E8  
00004ED0: 50 33 00 00 8D 4C 24 64 C6 84 24 74 02 00 01  
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00004EF0: FF FF FF FF E8 59 32 00 00 8B 8C 24 6C 02 00 00  
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00004FF0: 40 00 8B C6 5E C3 90 90 90 90 90 90 90 90 90  
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00005030: 25 00 00 00 00 51 8B 44 24 14 56 57 8B F1 50 6A  
00005040: 66 89 74 24 10 E8 FC 30 00 00 8D 7E 60 C7 44 24  
00005050: 14 00 00 00 00 8B CF E8 10 32 00 00 C7 07 88 9B  
00005060: 40 00 8D BE A0 00 00 00 C6 44 24 14 01 8B CF E8  
00005070: F8 31 00 00 C7 07 88 9B 40 00 8D BE E0 00 00 00  
00005080: C6 44 24 14 02 8B CF E8 10 32 00 00 C7 07 88 9B  
00005090: 40 00 8D BE 20 01 00 00 C6 44 24 14 03 8B CF E8  
000050A0: C8 31 00 00 C7 07 88 9B 40 00 8D BE 60 01 00 00  
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000050F0: 40 00 8D BE 20 02 00 00 C6 44 24 14 07 8B CF E8  
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00005150: 00 83 C4 10 C2 04 00 00 90 90 90 90 90 90 90  
00005160: 56 8B F1 E8 B8 FD FF FF F6 44 24 08 01 74 09 56  
00005170: E8 D7 2F 00 00 83 C4 04 8B C6 5E C2 04 00 90 90  
00005180: 56 8B F1 57 8B 7C 24 0C 8D 46 60 50 68 EE 03 00  
00005190: 00 57 E8 DB 30 00 00 8D 8E A0 00 00 00 51 68 FD  
000051A0: 03 00 00 57 E8 C9 30 00 00 8D 96 E0 00 00 00 52  
000051B0: 68 ED 03 00 00 57 E8 B7 30 00 00 8D 86 20 01 00  
000051C0: 00 50 68 EB 03 00 00 57 E8 A5 30 00 00 8D 8E 60  
000051D0: 01 00 00 51 68 EC 03 00 00 57 E8 93 30 00 00 8D  
000051E0: 96 A0 01 00 00 52 68 EA 03 00 00 57 E8 81 30 00  
000051F0: 00 8D 86 E0 01 00 00 50 68 E9 03 00 00 57 E8 6F  
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00005230: B8 D8 97 40 00 C3 90 90 90 90 90 90 90 90 90  
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00005250: 25 00 00 00 00 51 53 56 57 8B F1 E8 EA 2D 00 00  
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000052D0: 64 02 00 00 8B 46 20 8B 1D 54 93 40 00 52 6A 01

APPENDIX-continued

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00005310: 88 00 D8 00 B8 17 00 00 00 68 88 00 D8 00 A3 6C  
00005320: 00 D8 00 A3 8C 00 D8 00 B8 64 00 00 00 6A 01 A3  
00005330: 74 00 D8 00 A3 94 00 D8 00 B8 32 00 00 00 8B CE  
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00005350: 00 A3 98 00 D8 00 89 3D 7C 00 D8 00 89 3D 9C 00  
00005360: D8 00 E8 17 2F 00 00 6A 01 68 68 00 D8 00 57 8B  
00005370: CE E8 08 2F 00 00 8B 4E 20 57 6A 03 51 FF 15 40  
00005380: 93 40 00 E8 68 18 00 00 85 C0 74 1C E8 FF 13 00  
00005390: 00 6A 01 8D 8E 20 02 00 00 C7 05 94 FC D8 00 01  
000053A0: 00 00 00 E8 D0 2E 00 00 8B 4C 24 10 5F 5E B8 01  
000053B0: 00 00 00 5B 64 89 0D 00 00 00 83 C4 10 C3 90  
000053C0: 64 A1 00 00 00 00 6A FF 68 D8 86 40 00 50 8B 44  
000053D0: 24 10 64 89 25 00 00 00 25 F0 FF 00 00 83 EC  
000053E0: 60 83 F8 10 75 3C 8D 4C 24 00 E8 F1 FB FF FF 8D  
000053F0: 4C 24 00 C7 44 24 68 00 00 00 00 E8 50 2C 00 00  
00005400: 8D 4C 24 00 C7 44 24 68 FF FF FF FF E8 41 2D 00  
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00005420: 08 00 E8 75 2E 00 00 8B 4C 24 60 64 89 0D 00 00  
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00005450: 85 C0 0F 84 92 00 00 00 53 57 56 8D 4C 24 20 E8  
00005460: 44 2E 00 00 8B 7C 24 20 8D 44 24 1C 8B 4E 20 6A  
00005470: 00 F7 D8 1B C0 23 C7 50 6A 27 51 FF 15 54 93 40  
00005480: 00 8B 3D 4C 93 40 00 6A 0B FF D7 6A 0C 8B D8 FF  
00005490: D7 8B F8 8B 46 20 8D 54 24 0C 52 50 FF 15 48 93  
000054A0: 40 00 8B 8E 64 02 00 00 8B 44 24 18 51 8B 4C 24  
000054B0: 14 2B C1 2B C7 40 99 2B C2 8B 54 24 10 D1 F8 50  
000054C0: 8B 44 24 1C 2B C2 2B C3 40 99 2B C2 8B 54 24 28  
000054D0: D1 F8 50 52 FF 15 44 93 40 00 8D 4C 24 1C E8 BF  
000054E0: 2D 00 00 5F 5B 5E 83 C4 64 C3 8B CE E8 AB 2D 00  
000054F0: 00 C7 05 0C BC 40 00 01 00 00 00 5E 83 C4 64 C3  
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00005510: 6A 01 81 C1 A0 00 00 00 E8 5B 2D 00 00 C7 05 9C  
00005520: 50 D3 00 01 00 00 00 C3 90 90 90 90 90 90 90  
00005530: 56 8B F1 E8 E8 1C 00 00 6A 00 8D 8E 20 02 00 00  
00005540: C7 05 98 EC D8 00 01 00 00 00 E8 29 2D 00 00 6A  
00005550: 01 8D 8E E0 01 00 00 E8 1C 2D 00 00 6A 01 8D 8E  
00005560: A0 01 00 00 E8 0F 2D 00 00 5E C3 90 90 90 90 90  
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00005580: 00 50 FF 15 0C 93 40 00 83 C4 04 8B 0D B4 FC D8  
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000055A0: 90 40 00 E8 38 25 00 00 E8 93 12 00 00 6A 00 8D  
000055B0: 8E 20 02 00 00 C7 05 94 FC D8 00 00 00 00 E8  
000055C0: B4 2C 00 00 6A 00 8D 8E E0 01 00 00 E8 A7 2C 00  
000055D0: 00 6A 00 8D 8E A0 01 00 00 E8 9A 2C 00 00 6A 00  
000055E0: 8D 8E 20 01 00 00 E8 8D 2C 00 00 6A 00 8D 4E 60  
000055F0: E8 83 2C 00 00 6A 00 8D 8E 60 01 00 00 E8 76 2C  
00005600: 00 00 6A 00 8D 8E E0 00 00 E8 69 2C 00 00 6A  
00005610: 00 8D 8E A0 00 00 00 E8 5C 2C 00 00 5E C3 90 90  
00005620: 83 EC 68 E8 18 1C 00 00 85 C0 74 77 E8 5F BA FF  
00005630: FF A1 2C FF D7 00 C7 05 8C 50 D3 00 01 00 00 00  
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00005650: 4C 24 04 51 FF 15 10 93 40 00 50 68 C8 B1 40 00  
00005660: 8D 54 24 14 6A 64 52 FF 15 00 93 40 00 5D 44 24  
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00005680: 40 00 8B 0D B0 FC D8 00 8B 15 AC FC D8 00 A1 2C  
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000056C0: E8 CB B9 FF FF C7 05 88 FB D8 00 01 00 00 00 C3  
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000056E0: 25 00 00 00 00 83 EC 48 53 55 8B D9 56 57 8D 4C  
000056F0: 24 10 C7 44 24 10 50 9C 40 00 E8 D9 2B 00 00 8B  
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00005720: 60 A3 5C 5A D3 00 89 0D 58 5A D3 00 0F 8D F5 02  
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00005750: 2C FC D8 00 56 52 50 E8 94 E9 FF FF 83 C4 14 3B  
00005760: C5 75 11 A1 54 99 D7 00 89 2D 50 99 D7 00 40 A3  
00005770: 54 99 D7 00 83 3D 54 99 D7 00 10 75 33 E8 3E B9  
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00005790: 2D 4C 99 D7 00 E8 DE 2A 00 00 55 8D 8B 60 01 00

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000057C0: FF E9 61 02 00 00 39 2D 8C 50 D3 00 0F 85 A1 01  
000057D0: 00 00 55 51 50 53 8D 4C 24 20 E8 F3 2A 00 00 8B  
000057E0: 44 24 20 8B 3D AC FC D8 00 3B C7 0F 8D 36 02 00  
000057F0: 00 8B 54 24 24 8B 0D B0 FC D8 00 3D D1 0F 8D 24  
00005800: 02 00 00 8B 4C 24 18 8B F0 2B F1 8B 74 24 1C 75  
00005810: 0F 8B EA 2B EE 0F 84 0C 02 00 00 BD 01 00 00 00  
00005820: 3B C1 7E 0D A3 24 50 D3 00 89 0D 28 50 D3 00 EB  
00005830: 0B 89 0D 24 50 D3 00 A3 28 50 D3 00 3B D6 7E 0E  
00005840: 89 15 1C 50 D3 00 89 35 20 50 D3 00 EB 0C 89 35  
00005850: 1C 50 D3 00 89 15 20 50 D3 00 8B 0D B0 FC D8 00  
00005860: 8B 15 2C FC D8 00 51 57 52 E8 92 DE FF FF 83 C4  
00005870: 0C 3B C5 0F 85 AE 01 00 00 E8 B2 DD FF FF A1 B0  
00005880: FC D8 00 8B 0D AC FC D8 00 50 51 E8 80 BD FF FF  
00005890: 83 C4 08 8B CB 6A 03 68 20 B4 40 00 68 D4 B3 40  
000058A0: 00 E8 E8 28 00 00 83 F8 06 0F 85 B1 00 00 00 8B  
000058B0: 15 B0 FC D8 00 A1 AC FC D8 00 52 50 E8 4F BD FF  
000058C0: FF A1 24 FF D7 00 83 C4 08 3B C5 75 03 55 EB 02  
000058D0: 6A 00 8B 0D B0 FC D8 00 8B 15 AC FC D8 00 A1 14  
000058E0: 50 D3 00 51 8B 0D 18 50 D3 00 52 8B 15 5C B3 40  
000058F0: 00 50 A1 58 B3 40 00 51 52 50 E8 81 EB FF FF A1  
00005900: 28 FF D7 00 83 C4 1C 85 C0 7E 25 C1 E0 02 8B C8  
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00005920: C8 BE 1C EF D7 00 C1 E9 02 BF 1C AF D7 00 F3 A5  
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00005940: 29 00 00 55 8D 4B 60 E8 2C 29 00 00 C7 05 8C 50  
00005950: D3 00 00 00 00 00 E8 65 B7 FF FF E9 C7 00 00 00  
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00005970: 00 00 00 39 2D 88 FB D8 00 0F 85 A8 00 00 00 51  
00005980: 8B 0D 2C FC D8 00 50 56 52 51 E8 F1 0A 00 00 83  
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000059B0: 00 00 E8 C1 25 00 00 89 3D 88 FB D8 00 E8 FE B6  
000059C0: FF FF 39 3D 90 FB D8 00 74 05 E8 11 BC FF FF D9  
000059D0: 05 F4 FA D8 00 D8 05 F0 FA D8 00 DC C0 D8 35 D8  
000059E0: B4 40 00 D9 1D DC B4 40 00 D9 05 F8 94 40 00 D8  
000059F0: 35 DC B4 40 00 D9 1D C0 00 D8 00 DD 05 58 B3 40  
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00005A10: 00 28 FF D7 00 D8 C9 D8 C9 D8 0D 4C 9C 40 00 D9  
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00005A70: 0D 5C 5A D3 00 A3 58 5A D3 00 0F 8D F3 00 00 00  
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00005AA0: 05 48 99 D7 00 00 00 00 83 F8 04 7C 49 6A 00  
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00005AC0: C7 05 4C 99 D7 00 01 00 00 00 E8 A9 27 00 00 6A  
00005AD0: 01 8D 8E 60 01 00 00 E8 9C 27 00 00 6A 01 8D 8E  
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00005BE0: FC D8 00 8B C4 8D 54 24 08 89 08 52 B9 24 FC D8  
00005BF0: 00 E8 FA 03 00 00 8B 00 51 8B 00 20 FC D8 00 A3  
00005C00: 18 FC D8 00 8B C4 8D 54 24 08 52 89 08 B9 1C FC  
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00005C20: EC 08 A3 14 FC D8 00 8B 00 C4 FC D8 00 DA 35 14  
00005C30: FC D8 00 8B 15 C0 FC D8 00 8D 44 24 10 DD 1C 24  
00005C40: DB 05 C0 FC D8 00 51 83 EC 08 DA 35 18 FC D8 00  
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00005CC0: E8 8D 24 00 00 8B 4C 24 60 64 89 00 00 00 00  
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00005D10: 00 00 00 00 00 E8 36 23 00 00 8D 4C 24 00 C7 84  
00005D20: 24 88 00 00 00 FF FF FF FF E8 24 24 00 00 8B 8C  
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00005DF0: 53 55 56 6A 17 68 68 00 D8 00 8B F1 6A 00 E8 E7  
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00005E40: 89 0D 7C 00 D8 00 EB 46 40 A3 7C 00 D8 00 EB 3E  
00005E50: 8B 0D 70 00 D8 00 3B C1 7F 08 89 0D 7C 00 D8 00  
00005E60: EB 2C 83 C0 F6 A3 7C 00 D8 00 EB 22 8B 0D 74 00  
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00005EE0: 88 5E 40 00 88 5E 40 00 88 5E 40 00 88 5E 40 00  
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00005F40: 89 0D 9C 00 D8 00 EB 46 40 A3 9C 00 D8 00 EB 3E  
00005F50: 8B 0D 90 00 D8 00 3B C1 7F 08 89 0D 9C 00 D8 00  
00005F60: EB 2C 83 C0 F6 A3 9C 00 D8 00 EB 22 8B 0D 94 00  
00005F70: D8 00 3B C1 7C 08 89 0D 9C 00 D8 00 EB 10 83 C0  
00005F80: 0A A3 9C 00 D8 00 EB 06 89 1D 9C 00 D8 00 6A 01  
00005F90: 68 88 00 D8 00 6A 01 8B CE C7 05 8C 00 D8 00 04  
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00005FB0: 57 C7 05 B8 00 D8 00 01 00 00 00 C7 05 30 FF D7  
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00005FD0: 1C 5F 40 00 36 5F 40 00 50 5F 40 00 6C 5F 40 00  
00005FE0: 88 5F 40 00 88 5F 40 00 88 5F 40 00 88 5F 40 00  
00005FF0: 8B 09 8B 44 24 08 2B C8 8B 44 24 04 89 08 C2 08  
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00006020: E8 27 21 00 00 83 C4 04 8B C6 5E C2 04 00 90 90  
00006030: 56 8B F1 E8 94 22 00 00 F6 44 24 08 01 74 09 56  
00006040: E8 07 21 00 00 83 C4 04 8B C6 5E C2 04 00 90 90  
00006050: E9 0B 00 00 00 90 90 90 90 90 90 90 90 90 90 90  
00006060: D9 05 F8 94 40 00 D8 35 DC B4 40 00 D9 1D C0 00  
00006070: D8 00 C3 90 90 90 90 90 90 90 90 90 90 90 90 90  
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00006090: C4 40 75 3D D9 41 0C DC 1D 90 94 40 00 DF E0 F6  
000060A0: C4 40 75 2D D9 41 28 D8 61 08 D9 E1 DC 1D 68 9C  
000060B0: 40 00 DF E0 F6 C4 41 74 15 D9 41 2C D8 61 0C D9  
000060C0: E1 DC 1D 68 9C 40 00 DF E0 F6 C4 41 75 03 33 C0  
000060D0: C3 B8 01 00 00 00 C3 90 90 90 90 90 90 90 90 90  
000060E0: 8B 44 24 14 53 55 56 8D 45 64 57 83 C0 9C 51 50  
000060F0: 8B 44 24 28 8B 0D 64 5A D7 00 33 FF 8D 50 64 83  
00006100: C0 9C 52 8B 54 24 28 50 A1 60 5A D7 00 50 8B 44  
00006110: 24 2C 51 8B 4C 24 2C 52 50 51 33 DB E8 9F C1 FF

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00006120: FF A1 60 5A D7 00 8B 0D 64 5A D7 00 83 C4 24 2B  
00006130: C5 8D B0 7C 01 00 00 89 4C 24 20 C7 44 24 24 0B  
00006140: 00 00 00 EB 04 8B 4C 24 20 8B 16 8B 0C 31 2B CA  
00006150: 8D 82 BE 00 00 00 BA 0B 00 00 00 33 ED 66 8B 2C  
00006160: 01 83 C0 02 03 FD 33 ED 66 8B 68 FE 03 DD 4A 75  
00006170: EA 8B 44 24 24 83 C6 04 48 89 44 24 24 75 C6 89  
00006180: 7C 24 24 89 5C 24 20 DB 44 24 24 DC 0D 70 9C 40  
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00007350: 68 00 FC D8 00 FF D5 8B 0D 04 FC D8 00 8B 15 C4  
00007360: FC D8 00 A1 C0 FC D8 00 81 E1 FF FF 00 00 51 8B  
00007370: 0D 88 B6 40 00 52 8B 15 8C B6 40 00 50 A1 10 FC  
00007380: D8 00 51 52 6A 09 68 40 B8 40 00 50 FF 15 EC 92  
00007390: 40 00 83 C4 24 A1 C8 FC D8 00 BE 01 00 00 00 3B  
000073A0: C6 0F 8E EA 01 00 00 8B 0D 8C B6 40 00 53 68 00  
000073B0: 00 00 80 8B 14 8D 04 FC D8 00 52 E8 30 0C 00 00  
000073C0: 8B 0D 44 99 D7 00 A3 2C FC D8 00 3B CB 74 57 8B  
000073D0: 15 54 99 D7 00 3B D3 7E 1C B8 70 99 D7 00 8B 48  
000073E0: E8 89 08 89 48 F8 8B 48 EC 89 48 04 89 48 FC 83  
000073F0: C0 5C 4A 75 E9 39 35 9C 50 D3 00 0F 85 8A 01 00  
00007400: 00 E8 FA 9D FF FF A1 B0 FC D8 00 8B 0D AC FC D8  
00007410: 00 50 51 E8 F8 A1 FF FF 83 C4 08 89 1D 9C 50 D3

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00007420: 00 E9 65 01 00 00 39 1D 4C 99 D7 00 0F 84 59 01  
00007430: 00 00 8B 15 54 99 D7 00 3B D3 7E 16 B9 70 99 D7  
00007440: 00 8B 79 F8 89 39 8B 79 FC 89 79 04 83 C1 5C 4A  
00007450: 75 EF 8B 15 D8 FA D8 00 8B 0D DC FA D8 00 89 15  
00007460: E0 FA D8 00 8B 15 B0 FC D8 00 89 0D E4 FA D8 00  
00007470: 8B 0D AC FC D8 00 52 51 50 E8 52 CD FF FF 83 C4  
00007480: 0C 3B C6 75 33 A1 28 FF D7 00 3B C3 7E 25 C1 E0  
00007490: 02 8B C8 BE 1C DF D7 00 C1 E9 02 BF 1C BF D7 00  
000074A0: F3 A5 8B C8 BE 1C EF D7 00 C1 E9 02 BF 1C CF D7  
000074B0: 00 F3 A5 E8 E8 A8 FF FF 8B 15 B0 FC D8 00 A1 AC  
000074C0: FC D8 00 8B 0D 2C FC D8 00 52 50 51 E8 7F F0 FF  
000074D0: FF 83 C4 0C 83 F8 01 0F 85 8B 00 00 00 A1 30 B0  
000074E0: 40 00 B9 14 00 00 00 83 F8 02 8B F1 75 11 8B 15  
000074F0: B0 00 D8 00 A1 B4 00 D8 00 8D 4A 0A 8D 70 0A 8B  
00007500: 3D 20 FF D7 00 A1 28 FF D7 00 3B F8 7D 4D 8B 04  
00007510: BD 1C EF D7 00 8B 15 D8 FA D8 00 8B 1D D4 B4 40  
00007520: 00 2B C2 99 33 C2 2B C2 3B C3 7D 2D 8B 04 BD 1C  
00007530: DE D7 00 8B 15 DC FA D8 00 2B C2 99 33 C2 2B C2  
00007540: 3B C3 7D 15 68 00 FF 00 40 6A 14 56 51 E8 9E A1  
00007550: FF FF 83 C4 10 33 DB EB 0F 33 DB 53 6A 14 56 51  
00007560: E8 8B A1 FF FF 83 C4 10 E8 E3 9F FF FF E8 1E A0  
00007570: FF FF 83 3D 30 FF D7 00 01 75 10 E8 10 9F FF FF  
00007580: E8 6B 9F FF FF 89 1D 30 FF D7 00 89 1D A8 00 D8  
00007590: 00 39 1D 94 FB D8 00 74 45 68 00 FC D8 00 FF D5  
000075A0: 8B 0D 04 FC D8 00 8B 15 C8 FC D8 00 A1 C0 FC D8  
000075B0: 00 81 E1 FF FF 00 00 51 8B 0D 88 B6 40 00 52 8B  
000075C0: 15 8C B6 40 00 50 A1 10 FC D8 00 51 52 6A 09 68  
000075D0: F4 B7 40 00 50 FF 15 EC 92 40 00 83 C4 24 39 1D  
000075E0: C0 FC D8 00 75 12 8D 4C 20 10 51 E8 EE 0C 00 00  
000075F0: 8B 10 89 15 28 FC D8 00 8B 0D C0 FC D8 00 A1 C8  
00007600: FC D8 00 41 40 89 0D C0 FC D8 00 A3 C8 FC D8 00  
00007610: E9 D6 FC FF FF 5F 5E 5D 5B 59 C3 90 90 90 90 90  
00007620: 8B 44 24 08 3D 02 01 00 00 C3 33 C0 C3 83 F8 FF 75 1A  
00007630: 27 3D 80 00 00 00 75 42 8B 44 24 04 6A 00 6A 00  
00007640: 50 68 B8 B8 40 00 6A 10 6A 00 E8 21 08 00 00 83  
00007650: C4 18 B8 01 00 00 00 C3 33 C0 C3 83 F8 FF 75 1A  
00007660: 8B 4C 24 04 6A 00 6A 00 51 68 8C B8 40 00 6A 10  
00007670: 6A 00 E8 F9 07 00 00 83 C4 18 B8 01 00 00 00 C3  
00007680: 53 8B 1D 3C 90 40 00 55 8B 20 40 90 40 00 56 57  
00007690: 8B 3D 44 90 40 00 A1 BC FC D8 00 68 DC 05 00 00  
000076A0: 50 FF D7 8B F0 83 FE FF 75 02 FF D3 56 68 B4 B6  
000076B0: 40 00 E8 69 FF FF FF 83 C4 08 85 C0 75 66 8B 0D  
000076C0: B8 FC D8 00 68 DC 05 00 00 51 FF D7 8B F0 83 FE  
000076D0: FF 75 02 FF D3 56 68 B4 B6 40 00 E8 40 FF FF FF  
000076E0: 83 C4 08 85 C0 75 3D A1 B8 FC D8 00 8B 15 88 B6  
000076F0: 40 00 50 89 15 8C B6 40 00 FF D5 85 C0 74 0B 83  
00007700: 3D 8C B6 40 00 02 7C 23 EB 8C 6A 00 6A 00 68 B4  
00007710: B6 40 00 68 D0 B9 40 00 6A 10 6A 00 E8 4F 07 00  
00007720: 00 83 C4 18 5F 5E 5D 33 C0 5B C3 5F 5E 5D B8 01  
00007730: 00 00 00 5B C3 90 90 90 90 90 90 90 90 90 90 90  
00007740: 83 EC 18 A1 88 FC D8 00 53 55 56 57 33 92 ED 68 00  
00007750: 00 00 40 55 68 B0 0F 00 00 50 89 6C 24 20 E8 AB  
00007760: 08 00 00 8B 00 88 FC D8 00 68 00 00 28 40 55 68  
00007770: EA 0F 00 00 51 E8 94 08 00 00 A1 88 FC D8 00 68  
00007780: 0C FC D8 00 68 20 7A 40 00 8D 54 24 18 6A 05 50  
00007790: 89 15 0C FC D8 00 E8 6D 08 00 00 8B 3D F8 92 40  
000077A0: 00 8B 1D EC 92 40 00 89 6C 24 10 8B 0D B4 FC D8  
000077B0: 00 55 51 FF 15 44 90 40 00 85 C0 75 7C 6A 64 C7  
000077C0: 05 9C FC D8 00 01 00 00 00 FF 15 24 90 40 00 39  
000077D0: 2D 94 FB D8 00 74 41 68 00 FC D8 00 FF D7 8B 15  
000077E0: 04 FC D8 00 A1 C4 FC D8 00 8B 0D C0 FC D8 00 81  
000077F0: E2 FF FF 00 00 52 8B 15 88 B6 40 00 50 A1 8C B6  
00007800: 40 00 51 8B 0D 10 FC D8 00 52 50 6A 09 68 8C BA  
00007810: 40 00 51 FF D3 83 C4 24 8B 15 88 FC D8 00 68 0C  
00007820: FC D8 00 68 20 7A 40 00 68 05 00 00 04 52 E8 D5  
00007830: 07 00 00 FF 15 E0 92 40 00 8B 44 24 10 8B 0D 8C  
00007840: B6 40 00 3B C1 0F 84 BA 01 00 00 39 2D 94 FB D8  
00007850: 00 74 45 68 00 FC D8 00 FF D7 8B 0D 04 FC D8 00  
00007860: 8B 15 C4 FC D8 00 A1 C0 FC D8 00 81 E1 FF FF 00  
00007870: 00 51 8B 0D 88 B6 40 00 52 8B 15 8C B6 40 00 50  
00007880: 8B 44 24 20 51 8B 0D 10 FC D8 00 52 50 68 40 BA  
00007890: 40 00 51 FF D3 83 C4 24 39 2D AC 00 D8 00 74 3F  
000078A0: A1 30 B0 40 00 8B 15 84 FC D8 00 50 50 52 E8 19  
000078B0: 07 00 00 83 3D 30 B0 40 00 01 75 04 55 55 EB 0E  
000078C0: 8B 0D B4 00 D8 00 8B 15 B0 00 D8 00 51 52 A1 84  
000078D0: FC D8 00 50 E8 29 07 00 00 89 2D AC 00 D8 00 83

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000078E0: 3D 30 B0 40 00 02 0F 85 90 00 00 39 2D B8 00  
000078F0: D8 00 0F 84 84 00 00 00 DB 05 7C 00 D8 00 8B 0D  
00007900: 74 00 D8 00 8B 35 78 00 D8 00 2B CE 89 6C 24 1C  
00007910: DA 0D AC FC D8 00 41 89 4C 24 18 D8 0D 78 9C 40  
00007920: 00 DA 74 24 18 E8 D6 09 00 00 DB 05 9C 00 D8 00  
00007930: 8B 15 94 00 D8 00 8B 0D 98 00 D8 00 2B D1 89 6C  
00007940: 24 24 DA 0D B0 FC D8 00 42 8B F0 89 54 24 20 89  
00007950: 35 B0 00 D8 00 D8 0D 78 9C 40 00 DA 74 24 20 E8  
00007960: 9C 09 00 00 A3 B4 00 D8 00 50 A1 84 FC D8 00 56  
00007970: 50 E8 8C 06 00 00 89 2D B8 00 D8 00 8B 4C 24 10  
00007980: A1 88 FC D8 00 8B 14 8D 48 FC D8 00 52 50 E8 63  
00007990: 06 00 00 39 2D C4 FC D8 00 75 12 8D 4C 24 14 51  
000079A0: E8 39 09 00 00 8B 10 89 15 20 FC D8 00 8B 0D C4  
000079B0: FC D8 00 A1 94 FB D8 00 41 3B C5 89 0D C4 FC D8  
000079C0: 00 74 42 68 00 FC D8 00 FF D7 A1 04 FC D8 00 8B  
000079D0: 0D C4 FC D8 00 8B 15 C0 FC D8 00 25 FF FF 00 00  
000079E0: 50 A1 88 B6 40 00 51 8B 0D 8C B6 40 00 52 8B 54  
000079F0: 24 20 50 A1 10 FC D8 00 51 52 68 F4 B9 40 00 50  
00007A00: FF D3 83 C4 24 8B 44 24 10 40 83 F8 02 89 44 24  
00007A10: 10 0F 8C 94 FD FF FF E9 8B FD FF FF 90 90 90 90  
00007A20: A1 B8 FC D8 00 68 DC 05 00 00 50 FF 15 44 90 40  
00007A30: 00 85 C0 74 06 83 C8 FF C2 0C 00 8B 4C 24 0C 8B  
00007A40: 11 8B 02 A3 88 B6 40 00 A1 94 FB D8 00 85 C0 74  
00007A50: 49 68 00 FC D8 00 FF 15 F8 92 40 00 8B 00 04 FC  
00007A60: D8 00 8B 15 C4 FC D8 00 A1 C0 FC D8 00 81 E1 FF  
00007A70: FF 00 00 51 8B 0D 88 B6 40 00 52 8B 15 8C B6 40  
00007A80: 00 50 A1 10 FC D8 00 51 52 6A 09 6A D8 BA 40 00  
00007A90: 50 FF 15 EC 92 40 00 83 C4 24 8B 00 B8 FC D8 00  
00007AA0: 51 FF 15 40 00 00 85 C0 75 1D 50 50 68 B4 B6  
00007AB0: 40 00 68 D0 B9 40 00 6A 10 50 E8 B1 03 00 00 83  
00007AC0: C4 18 83 C8 FF C2 0C 00 8B 15 BC FC D8 00 52 FF  
00007AD0: 15 4C 90 40 00 33 C0 C2 0C 00 90 90 90 90 90  
00007AE0: A1 B4 FC D8 00 56 50 FF 15 48 90 40 00 33 F6 8B  
00007AF0: 86 40 FC D8 00 85 C0 74 06 50 E8 2D 05 00 00 8B  
00007B00: 86 38 FC D8 00 85 C0 74 06 50 E8 1D 05 00 00 8B  
00007B10: 86 30 FC D8 00 85 C0 74 06 50 E8 0D 05 00 00 83  
00007B20: C6 04 83 FE 08 7C C8 8B 0D A4 FC D8 00 8D 41 FF  
00007B30: 85 C0 7C 1E 57 8D 34 85 48 FC D8 00 8D 78 01 8B  
00007B40: 06 85 C0 74 06 50 E8 E1 04 00 00 83 EE 04 4F 75  
00007B50: EE 5F 8B 15 10 BC 40 00 68 BC FC D8 00 68 A4 B6  
00007B60: 40 00 52 E8 28 02 00 00 A1 10 BC 40 00 68 B8 FC  
00007B70: D8 00 68 9C B6 40 00 50 E8 13 02 00 00 A1 84 FC  
00007B80: D8 00 83 C4 18 85 C0 5E 74 06 50 E8 96 04 00 00  
00007B90: A1 88 FC D8 00 85 C0 74 06 50 E8 81 04 00 00 A1  
00007BA0: 8C FC D8 00 85 C0 74 06 50 E8 6C 04 00 00 68 F4  
00007BB0: 01 00 00 FF 15 24 90 40 00 A1 90 FC D8 00 85 C0  
00007BC0: 74 06 50 E8 4C 04 00 00 8B 0D 10 BC 40 00 68 B4  
00007BD0: FC D8 00 68 A4 B6 40 00 51 E8 B2 01 00 00 83 C4  
00007BE0: 0C E8 DA 95 FF FF B8 01 00 00 00 C3 90 90 90 90  
00007BF0: 51 53 8B 5C 24 10 56 57 33 FF BE A4 B6 40 00 89  
00007C00: 7C 24 0C 8B C3 8A 10 8A CA 3A 16 75 1C 84 C9 74  
00007C10: 14 8A 50 01 8A CA 3A 56 01 75 0E 83 C0 02 83 C6  
00007C20: 02 84 C9 75 E0 33 C0 EB 05 1B C0 83 D8 FF 55 8B  
00007C30: 6C 24 28 85 C0 75 4D 8B 44 24 20 BE AC B6 40 00  
00007C40: 8A 10 8A CA 3A 16 75 1C 84 C9 74 14 8A 50 01 8A  
00007C50: CA 3A 56 01 75 0E 83 C0 02 83 C6 02 84 C9 75 E0  
00007C60: 33 C0 EB 05 1B C0 83 D8 FF 85 C0 75 05 BF 01 00  
00007C70: 00 00 8B 44 24 24 6A 00 50 57 6A 00 FF 15 34 90  
00007C80: 40 00 EB 42 BE 9C B6 40 00 8B C3 8A 10 8A CA 3A  
00007C90: 16 75 1C 84 C9 74 14 8A 50 01 8A CA 3A 56 01 75  
00007CA0: 0E 83 C0 02 83 C6 02 84 C9 75 E0 33 C0 EB 05 1B  
00007CB0: C0 83 D8 FF 85 C0 75 11 50 8B 44 24 28 50 6A 00  
00007CC0: FF 15 38 90 40 00 89 45 00 8B 45 00 5D 85 C0 0F  
00007CD0: 85 A2 00 00 00 BE A4 B6 40 00 8B C3 8A 10 8A CA  
00007CE0: 3A 16 75 1C 84 C9 74 14 8A 50 01 5A CA 3A 56 01  
00007CF0: 75 0E 83 C0 02 83 C6 02 84 C9 75 E0 33 C0 EB 05  
00007D00: 1B C0 83 D8 FF 85 C0 75 0A C7 44 24 0C 3C BB 40  
00007D10: 00 EB 40 BE 9C B6 40 00 8B C3 8A 10 8A 1E 8A CA  
00007D20: 3A D3 75 1E 84 C9 74 16 8A 50 01 8A 5E 01 8A CA  
00007D30: 3A D3 75 0E 83 C0 02 83 C6 02 84 C9 75 DC 33 C0  
00007D40: EB 05 1B C0 83 D8 FF 85 C0 75 08 C7 44 24 0C 24  
00007D50: BB 40 00 8B 44 24 0C 8B 4C 24 14 6A 00 6A 00 68  
00007D60: B4 B6 40 00 50 6A 10 51 E8 03 01 00 00 83 C4 18  
00007D70: 33 C0 5F 5E 5B 59 C3 5F 5E B8 01 00 00 5B 59  
00007D80: C3 90 90 90 90 90 90 90 90 90 90 90 90 90 90  
00007D90: 8B 44 24 0C 53 56 57 8B 00 85 C0 0F 84 BD 00 00

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00007DA0: 00 50 FF 15 30 90 40 00 85 C0 0F 85 AE 00 00 00  
00007DB0: 8B 7C 24 14 BE A4 B6 40 00 8B C7 8A 10 8A 1E 8A  
00007DC0: CA 3A D3 75 1E 84 C9 74 16 8A 50 01 8A 5E 01 8A  
00007DD0: CA 3A D3 75 0E 83 C0 02 83 C6 02 84 C9 75 DC 33  
00007DE0: C0 EB 05 1B C0 83 D8 FF 85 C0 75 1F 50 50 8B 44  
00007DF0: 24 18 68 B4 B6 40 00 68 80 BB 40 00 6A 10 50 E8  
00007E00: 6C 00 00 00 83 C4 18 5F 5E 5B C3 BE 9C B6 40 00  
00007E10: 8B C7 8A 10 8A 1E 8A CA 3A D3 75 1E 84 C9 74 16  
00007E20: 8A 50 01 8A 5E 01 8A CA 3A D3 75 0E 83 C0 02 83  
00007E30: C6 02 84 C9 75 DC 33 C0 EB 05 1B C0 83 D8 FF 85  
00007E40: C0 75 1B 50 50 8B 44 24 18 68 B4 B6 40 00 68 54  
00007E50: BB 40 00 6A 10 50 E8 15 00 00 00 83 C4 18 5F 5E  
00007E60: 5B C3 90 90 90 90 90 90 90 90 90 90 90 90 90  
00007E70: 81 EC 64 01 00 00 A0 CC FC D8 00 53 56 57 88 44  
00007E80: 24 0C B9 58 00 00 00 33 C0 8D 7C 24 0D F3 AB 66  
00007E90: AB 8B BC 24 84 01 00 00 85 FF 75 1B 8B 8C 24 7C  
00007EA0: 01 00 00 8D 54 24 0C 51 52 FF 15 14 93 40 00 83  
00007EB0: C4 08 E9 A7 00 00 00 BE B4 BB 40 00 8B C7 8A 10  
00007EC0: 8A 1E 8A CA 3A D3 75 1E 84 C9 74 16 8A 50 01 8A  
00007ED0: 5E 01 8A CA 3A D3 75 0E 83 C0 02 83 C6 02 84 C9  
00007EE0: 75 DC 33 C0 EB 05 1B C0 83 D8 FF 85 C0 75 19 8B  
00007EF0: 84 24 88 01 00 00 8B 94 24 7C 01 00 00 8B 08 8D  
00007F00: 44 24 0C 51 52 50 EB 4D BE AC BB 40 00 8B C7 8A  
00007F10: 10 8A 1E 8A CA 3A D3 75 1E 84 C9 74 16 8A 50 01  
00007F20: 8A 5E 01 8A CA 3A D3 75 0E 83 C0 02 83 C6 02 84  
00007F30: C9 75 DC 33 C0 EB 05 1B C0 83 D8 FF 85 C0 75 1E  
00007F40: 8B 84 24 88 01 00 00 8B 8C 24 7C 01 00 00 50 8D  
00007F50: 54 24 10 51 52 FF 15 14 93 40 00 83 C4 0C 8B 84  
00007F60: 24 78 01 00 00 8B 5C 24 80 01 00 00 25 FF FF 00  
00007F70: 00 8D 54 24 0C 50 8B 84 24 78 01 00 00 51 52 50  
00007F80: FF 15 5C 93 40 00 5F 5E 5B 81 C4 64 01 00 00 C3  
00007F90: FF 25 A8 92 40 00 FF 25 74 92 40 00 FF 25 8C 92  
00007FA0: 40 00 FF 25 6C 92 40 00 FF 25 68 92 40 00 FF 25  
00007FB0: 70 92 40 00 FF 25 60 92 40 00 FF 25 5C 92 40 00  
00007FC0: FF 25 64 92 40 00 FF 25 7C 92 40 00 FF 25 80 92  
00007FD0: 40 00 FF 25 84 92 40 00 FF 25 88 92 40 00 FF 25  
00007FE0: 78 92 40 00 FF 25 90 92 40 00 FF 25 58 92 40 00  
00007FF0: FF 25 54 92 40 00 FF 25 94 92 40 00 FF 25 98 92  
00008000: 40 00 FF 25 9C 92 40 00 FF 25 A0 92 40 00 FF 25  
00008010: 40 92 40 00 FF 25 50 92 40 00 FF 25 3C 92 40 00  
00008020: FF 25 4C 92 40 00 FF 25 48 92 40 00 FF 25 44 92  
00008030: 40 00 FF 25 70 90 40 00 FF 25 74 90 40 00 FF 25  
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000080B0: FF 25 C4 90 40 00 FF 25 C8 90 40 00 FF 25 CC 90  
000080C0: 40 00 FF 25 D0 90 40 00 FF 25 D4 90 40 00 FF 25  
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000080F0: 40 00 FF 25 F0 90 40 00 FF 25 F4 90 40 00 FF 25  
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00008120: 40 00 FF 25 10 91 40 00 FF 25 14 91 40 00 FF 25  
00008130: 18 91 40 00 FF 25 1C 91 40 00 FF 25 20 91 40 00  
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00008210: 40 00 FF 25 B8 91 40 00 FF 25 54 90 40 00 FF 25  
00008220: C0 91 40 00 FF 25 C4 91 40 00 FF 25 C8 91 40 00  
00008230: FF 25 CC 91 40 00 FF 25 D0 91 40 00 FF 25 D4 91  
00008240: 40 00 FF 25 D8 91 40 00 FF 25 DC 91 40 00 FF 25  
00008250: E0 91 40 00 FF 25 E4 91 40 00 FF 25 58 90 40 00

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00008270: 40 00 FF 25 F8 91 40 00 FF 25 FC 91 40 00 FF 25  
00008280: 00 92 40 00 FF 25 04 92 40 00 FF 25 08 92 40 00  
00008290: FF 25 0C 92 40 00 FF 25 4C 91 40 00 FF 25 E8 91  
000082A0: 40 00 FF 25 18 92 40 00 FF 25 1C 92 40 00 FF 25  
000082B0: 20 92 40 00 FF 25 24 92 40 00 FF 25 28 92 40 00  
000082C0: FF 25 2C 92 40 00 FF 25 30 92 40 00 FF 25 34 92  
000082D0: 40 00 FF 25 10 92 40 00 FF 25 14 92 40 00 FF 25  
000082E0: 54 91 40 00 FF 25 58 91 40 00 FF 25 6C 90 40 00  
000082F0: FF 25 68 90 40 00 CC CC CC CC CC CC CC CC CC CC  
00008300: FF 25 E8 92 40 00 FF 25 FC 92 40 00 83 3D F4 FC  
00008310: D8 00 FF 75 0C FF 74 24 04 FF 15 08 93 40 00 59  
00008320: C3 68 F0 FC D8 00 68 F4 FC D8 00 FF 74 24 0C E8  
00008330: 7A 01 00 00 00 83 C4 0C C3 FF 74 24 04 E8 CB FF FF  
00008340: FF F7 D8 1B C0 59 F7 D8 48 C3 FF 25 F4 92 40 00  
00008350: 55 8B EC 6A FF 68 80 9C 40 00 68 D6 84 40 00 64  
00008360: A1 00 00 00 00 50 64 89 25 00 00 00 00 83 EC 68  
00008370: 53 56 57 89 65 E8 33 DB 89 5D FC 6A 02 FF 15 CC  
00008380: 92 40 00 59 83 0D F0 FC D8 00 FF 83 0D F4 FC D8  
00008390: 00 FF FF 15 28 93 40 00 8B 0D E4 FC D8 00 89 08  
000083A0: FF 15 24 93 40 00 8B 0D E0 FC D8 00 89 08 A1 BC  
000083B0: 92 40 00 8B 00 A3 EC FC D8 00 E8 16 01 00 00 39  
000083C0: 1D C0 BB 40 00 75 0C 68 D2 84 40 00 FF 15 B8 92  
000083D0: 40 00 59 E8 E8 00 00 00 68 20 B0 40 00 68 1C B0  
000083E0: 40 00 E8 D3 00 00 00 A1 DC FC D8 00 89 45 94 8D  
000083F0: 45 94 50 FF 35 D8 FC D8 00 8D 45 9C 50 8D 45 90  
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00008410: 68 00 B0 40 00 E8 A0 00 00 00 83 C4 24 A1 C0 92  
00008420: 40 00 8B 30 89 75 8C 80 3E 22 75 3A 46 89 75 8C  
00008430: 8A 06 3A C3 74 04 3C 22 75 F2 80 3E 22 75 04 46  
00008440: 89 75 8C 8A 06 3A C3 74 04 3C 20 76 F2 89 5D D0  
00008450: 8D 45 A4 50 FF 15 28 90 40 00 F6 45 D0 01 74 11  
00008460: 0F B7 45 D4 EB 0E 80 3E 20 76 D8 46 89 75 8C EB  
00008470: F5 6A 0A 58 50 56 53 53 FF 15 2C 90 40 00 50 E8  
00008480: 5E 00 00 00 89 45 98 50 FF 15 2C 93 40 00 8B 45  
00008490: EC 8B 08 8B 09 89 4D 88 50 51 E8 15 00 00 00 59  
000084A0: 59 C3 8B 65 E8 FF 75 88 FF 15 C8 92 40 00 FF 25  
000084B0: DC 92 40 00 FF 25 D8 92 40 00 FF 25 B4 92 40 00  
000084C0: 68 00 00 03 00 68 00 00 01 00 E8 0D 00 00 00 59  
000084D0: 59 C3 33 C0 C3 C3 FF 25 D0 92 40 00 FF 25 D4 92  
000084E0: 40 00 FF 74 24 10 FF 74 24 10 FF 74 24 10 FF 74  
000084F0: 24 10 E8 43 00 00 C2 10 00 E8 67 FD FF FF 8B  
00008500: 4C 24 04 8B 54 24 08 85 C9 88 48 14 89 90 40 10  
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APPENDIX-continued

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APPENDIX-continued

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00009960: 15 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
00009970: 1D 00 00 00 F0 5E 40 00 01 02 00 00 00 00 00 00  
00009980: 00 00 00 00 00 00 00 00 0A 00 00 00 D0 56 40 00  
00009990: 04 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
000099A0: 0A 00 00 00 50 5A 40 00 02 04 00 00 00 00 00 00  
000099B0: 00 00 00 00 00 00 00 00 0A 00 00 00 10 55 40 00  
000099C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
000099D0: 00 00 00 00 00 00 00 00 40 81 40 00 E0 49 40 00  
000099E0: 60 10 40 00 50 10 40 00 60 10 40 00 3A 81 40 00  
000099F0: 34 81 40 00 2E 81 40 00 28 81 40 00 22 81 40 00  
00009A00: 1C 81 40 00 16 81 40 00 10 50 40 00 10 81 40 00  
00009A10: 0A 81 40 00 04 81 40 00 FE 80 40 00 F8 80 40 00

APPENDIX-continued

00009A20: F2 80 40 00 EC 80 40 00 E6 80 40 00 E0 80 40 00  
00009A30: DA 80 40 00 D4 80 40 00 CE 80 40 00 C8 80 40 00  
00009A40: C2 80 40 00 BC 80 40 00 B6 80 40 00 B0 80 40 00  
00009A50: AA 80 40 00 A4 80 40 00 9E 80 40 00 98 80 40 00  
00009A60: 92 80 40 00 80 50 40 00 70 10 40 00 80 10 40 00  
00009A70: 8C 80 40 00 86 80 40 00 80 80 40 00 7A 80 40 00  
00009A80: 74 80 40 00 6E 80 40 00 68 80 40 00 62 80 40 00  
00009A90: 5C 80 40 00 56 80 40 00 50 80 40 00 4A 80 40 00  
00009AA0: 44 80 40 00 3E 80 40 00 38 80 40 00 32 80 40 00  
00009AB0: 40 81 40 00 60 51 40 00 60 10 40 00 50 10 40 00  
00009AC0: 60 10 40 00 3A 81 40 00 34 81 40 00 2E 81 40 00  
00009AD0: 28 81 40 00 22 81 40 00 1C 81 40 00 16 81 40 00  
00009AE0: 30 52 40 00 10 81 40 00 0A 81 40 00 04 81 40 00  
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00009B20: B6 80 40 00 B0 80 40 00 AA 80 40 00 A4 80 40 00  
00009B30: 9E 80 40 00 98 80 40 00 92 80 40 00 80 51 40 00  
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APPENDIX-continued

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0000A020: BE 0C 00 80 A9 0B 00 80 09 0C 00 80 A0 0B 00 80  
0000A030: F6 0E 00 80 F7 0E 00 80 F1 0E 00 80 07 0C 00 80  
0000A040: F0 0F 00 80 13 12 00 80 49 11 00 80 0D 0E 00 80  
0000A050: 44 01 00 80 39 03 00 80 81 02 00 80 8A 10 00 80  
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0000A070: FD 08 00 80 F3 08 00 80 3F 09 00 80 E3 0E 00 80  
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0000A1C0: 92 00 00 80 9C 00 00 80 21 03 00 80 00 00 00 00  
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0000A1F0: B0 A3 00 00 2E A4 00 00 40 A4 00 00 54 A4 00 00  
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0000A2B0: 52 49 4F 4E 2E 64 6C 6C 00 00 4D 49 4C 2E 64 6C  
0000A2C0: 6C 00 4D 46 43 34 32 2E 44 4C 4C 00 F1 00 5F 66  
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0000A2E0: 72 69 6E 74 66 00 13 01 5F 69 6F 62 00 00 91 02  
0000A2F0: 6D 61 6C 6C 6F 63 00 00 5E 02 66 72 65 65 00 00  
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0000A310: 6E 74 66 00 8D 02 6C 6F 63 61 6C 74 69 6D 65 00  
0000A320: D0 02 74 69 6D 65 00 00 57 02 66 6F 70 65 6E 00  
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0000A360: 6C 65 72 00 66 02 66 77 72 69 74 65 00 00 A5 00  
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APPENDIX-continued

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0000A3D0: 58 00 5F 5F 67 65 74 6D 61 69 6E 61 72 67 73 00  
0000A3E0: 0F 01 5F 69 6E 69 74 74 65 72 6D 00 83 00 5F 5F  
0000A3F0: 73 65 74 75 73 65 72 6D 61 74 68 65 72 72 00 00  
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0000A410: 6A 00 5F 5F 70 5F 5F 63 6F 6D 6D 6F 64 65 00 00  
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0000A430: 5F 5F 73 65 74 5F 61 70 70 5F 74 79 70 65 00 00  
0000A440: CA 00 5F 65 78 63 65 70 74 5F 68 61 6E 64 6C 65  
0000A450: 72 33 00 00 B7 00 5F 63 6F 6E 74 72 6F 6C 66 70  
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0000A470: 76 65 6E 74 00 00 2B 02 52 65 73 65 74 45 76 65  
0000A480: 6E 74 00 00 CE 02 57 61 69 74 46 6F 72 53 69 6E  
0000A490: 67 6C 65 4F 62 6A 65 63 74 00 25 02 52 65 6C 65  
0000A4A0: 61 73 65 40 75 74 65 78 00 00 1A 01 47 65 74 4C  
0000A4B0: 61 73 74 45 72 72 6F 72 00 00 3F 00 43 72 65 61  
0000A4C0: 74 65 4D 75 74 65 78 41 00 00 31 00 43 72 65 61  
0000A4D0: 74 65 45 76 65 6E 74 41 00 00 1B 00 43 6C 6F 73  
0000A4E0: 65 48 61 6E 64 6C 65 00 26 01 47 65 74 4D 6F 64  
0000A4F0: 75 6C 65 48 61 6E 64 6C 65 41 00 00 50 01 47 65  
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0000A510: 52 4E 45 40 33 32 2E 64 6C 6C 00 00 B7 00 45 6E  
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0000A580: 6F 78 41 00 DE 01 50 6F 73 74 4D 65 73 73 61 67  
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APPENDIX-continued

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 0000B210: 63 3A 5C 49 6C 69 61 5C 55 6C 74 72 61 73 68 61  
 0000B220: 70 65 5C 54 72 61 63 6B 5C 49 6D 61 67 65 73 5C  
 0000B230: 49 6D 61 67 65 5F 45 72 6F 64 65 2E 62 6D 70 00  
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 0000B2E0: 70 65 5C 54 72 61 63 6B 5C 49 6D 61 67 65 73 5C  
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 0000B630: 68 61 72 56 65 63 74 6F 72 28 20 29 00 09 00 00  
 0000B640: 41 6C 6C 6F 63 61 74 69 6F 6E 20 66 61 69 6C 75  
 0000B650: 72 65 20 69 6E 20 41 6C 6C 6F 63 61 74 65 46 6C  
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 0000B670: 43 61 6E 27 74 20 6E 70 65 6E 20 42 4D 50 20 66  
 0000B680: 69 6C 65 00 77 62 00 00 03 00 00 00 03 00 00 00  
 0000B690: 41 75 74 6E 6D 61 74 69 63 00 00 00 4D 75 74 65

APPENDIX-continued

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 0000B6E0: 6D 61 67 65 20 62 75 66 66 65 72 2E 00 00 00 00  
 0000B6F0: 43 6F 75 6C 64 20 6E 6F 74 20 61 6C 6C 6F 63 61  
 0000B700: 74 65 20 4D 49 4C 20 44 69 73 70 6C 61 79 2E 00  
 0000B710: 43 6F 75 6C 64 20 6E 6F 74 20 61 6C 6C 6F 63 61  
 0000B720: 74 65 20 4D 49 4C 20 44 69 67 69 74 69 7A 65 72  
 0000B730: 2E 00 00 00 43 6E 75 6C 64 20 6E 6F 74 20 61 6C  
 0000B740: 6C 6F 63 61 74 65 20 4D 49 4C 20 53 79 73 74 65  
 0000B750: 6D 2E 00 00 43 6F 75 6C 64 20 6E 6F 74 20 61 6C  
 0000B760: 6C 6F 63 61 74 65 20 4D 49 4C 20 41 70 70 6C 69  
 0000B770: 63 61 74 69 6F 6E 2E 00 42 75 66 66 65 72 00 00  
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 0000B790: 6C 61 79 00 50 61 6C 79 63 2E 64 63 66 00 00 00  
 0000B7A0: 44 69 67 69 74 69 7A 65 72 00 00 00 53 79 73 74  
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APPENDIX-continued

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0000BB70: 69 73 74 65 64 20 6D 75 74 65 78 2E 00 00 00 00  
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0000BB90: 68 61 6E 64 6C 65 20 74 6E 20 65 78 69 73 74 65  
0000BBA0: 64 20 65 76 65 6E 74 2E 00 00 00 00 53 74 72 69  
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APPENDIX-continued

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0000C050: 81 00 00 00 D8 00 00 80 83 00 00 00 F0 00 00 80  
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0000C140: 00 00 00 00 00 00 01 00 0D 04 00 00 B0 01 00 00  
0000C150: C0 01 99 00 02 01 00 00 00 00 00 00 00 00 00 00  
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0000C170: D0 08 99 00 D4 00 00 00 00 00 00 00 00 00 00 00  
0000C180: A8 09 99 00 64 03 00 00 00 00 00 00 00 00 00 00  
0000C190: 30 0D 99 00 3E 00 00 00 00 00 00 00 00 00 00 00  
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0000C1E0: 20 00 54 00 72 00 61 00 63 00 6B 00 00 00 08 00  
0000C1F0: 4D 00 53 00 20 00 53 00 61 00 6E 00 73 00 20 00  
0000C200: 53 00 65 00 72 00 69 00 66 00 00 00 03 00 00 00  
0000C210: 00 00 00 00 0B 00 11 00 14 00 14 00 FF FF FF FF  
0000C220: 82 00 FF FF 80 00 00 00 80 00 02 50 00 00 00 00  
0000C230: 28 00 0A 00 77 00 08 00 FF FF FF FF 82 00 54 00  
0000C240: 72 00 61 00 63 00 6B 00 20 00 56 00 65 00 72 00  
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0000C260: 00 00 00 00 00 00 02 50 00 00 00 00 28 00 19 00  
0000C270: 77 00 08 00 FF FF FF FF 82 00 43 00 6F 00 70 00  
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0000C2B0: 32 00 0E 00 01 00 FF FF 80 00 4F 00 4B 00 00 00  
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0000C2E0: 66 01 00 00 00 00 54 00 00 00 54 00 62 00 63 00 6B 00  
0000C2F0: 00 00 08 00 00 00 00 01 4D 00 53 00 20 00 53 00  
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0000C340: 00 00 00 00 00 00 00 00 00 01 58 AD 01 27 00  
0000C350: 32 00 0E 00 E8 03 00 00 EF FF 80 00 26 00 53 00  
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APPENDIX-continued

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APPENDIX-continued

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```

1. A method for lysing adipose tissue comprising the steps of:

- directing focused ultrasonic energy at a target volume in a region of a body containing adipose tissue; and
- modulating said focused ultrasonic energy so as to selectively lyse said adipose tissue in said target volume and generally not lyse non-adipose tissue in said target volume.

2. A method for lysing adipose tissue according to claim 1 and wherein said directing focused ultrasonic energy generally prevents lysis of tissue outside of said target volume.

3. A method for lysing adipose tissue according to claim 1 or claim 2 and also comprising:

- ultrasonic imaging of said region at least partially concurrently with directing said focused ultrasonic energy at said target volume.

4. A method for lysing adipose tissue according to any of the preceding claims and wherein said directing comprises positioning at least one ultrasonic transducer relative to said body in order to direct said focused ultrasonic energy at said target volume.

5. A method for lysing adipose tissue according to any of claims 1 to 3 and wherein said directing comprises varying the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

6. A method for lysing adipose tissue according to claim 5 and wherein varying the focus changes the volume of said target volume.

7. A method for lysing adipose tissue according to claim 5 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

8. A method for lysing adipose tissue according to any of claims 1 to 3 and wherein said directing comprises positioning at least one ultrasonic transducer relative to said body in order to direct said focused ultrasonic energy at said target volume.

9. A method for lysing adipose tissue according to any of claims 1 to 3 and wherein said directing comprises varying the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

10. A method for lysing adipose tissue according to claim 9 and wherein varying the focus changes the volume of said target volume.

11. A method for lysing adipose tissue according to claim 9 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

12. A method for lysing adipose tissue according to any of the preceding claims and also comprising sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

13. A method for lysing adipose tissue according to any of the preceding claims and also comprising sensing of cavitation at said target volume.

14. A method according to any of the preceding claims and wherein said directing takes place from an ultrasonic transducer located outside of the body.

15. A method according to any of the preceding claims and wherein said ultrasonic energy has a frequency in a range of 50 KHz-1000 KHz.

16. A method according to any of the preceding claims and wherein said ultrasonic energy has a frequency in a range of 100 KHz-500 KHz.

17. A method according to any of the preceding claims and wherein said ultrasonic energy has a frequency in a range of 150 KHz-300 KHz.

18. A method according to any of the preceding claims and wherein said modulating provides a duty cycle between 1:2 and 1:250.

19. A method according to any of the preceding claims and wherein said modulating provides a duty cycle between 1:5 and 1:30.

20. A method according to any of the preceding claims and wherein said modulating provides a duty cycle between 1:10 and 1:20.

21. A method according to any of the preceding claims and wherein said modulating provides between 2 and 1000 sequential cycles at an amplitude above a cavitation threshold.

22. A method according to any of the preceding claims and wherein said modulating provides between 25 and 500 sequential cycles at an amplitude above a cavitation threshold.

23. A method according to any of the preceding claims and wherein said modulating provides between 100 and 300 sequential cycles at an amplitude above a cavitation threshold.

24. A method according to any of the preceding claims and wherein said modulating comprises modulating the amplitude of said ultrasonic energy over time.

25. A method for lysing adipose tissue comprising the steps of:

- generating, at a source outside a body, ultrasonic energy which selectively generally lyses adipose tissue and generally does not lyse non-adipose tissue; and

directing said ultrasonic energy, from said source outside said body, at a target volume of a body containing adipose tissue.

**26.** A method for lysing adipose tissue according to claim 25 and wherein said directing ultrasonic energy generally prevents lysis of tissue outside of said target volume.

**27.** A method for lysing adipose tissue according to claim 25 or claim 26 and also comprising:

It ultrasonic imaging of said region at least partially concurrently with directing said ultrasonic energy at said target volume.

**28.** A method for lysing adipose tissue according to any of claims 25 to 27 and wherein said directing comprises positioning at least one ultrasonic transducer relative to said body in order to direct said ultrasonic energy at said target volume.

**29.** A method for lysing adipose tissue according to any of claims 25 to 27 and wherein said directing comprises varying the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

**30.** A method for lysing adipose tissue according to claim 29 and wherein varying the focus changes the volume of said target volume.

**31.** A method for lysing adipose tissue according to claim 29 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

**32.** A method for lysing adipose tissue according to claim 27 and wherein said directing comprises positioning at least one ultrasonic transducer relative to said body in order to direct said ultrasonic energy at said target volume.

**33.** A method for lysing adipose tissue according to claim 27 and wherein said directing comprises varying the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

**34.** A method for lysing adipose tissue according to claim 31 and wherein varying the focus changes the volume of said target volume.

**35.** A method for lysing adipose tissue according to claim 31 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

**36.** A method for lysing adipose tissue according to any of claims 25 to 35 and also comprising sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

**37.** A method for lysing adipose tissue according to any of claims 25 to 35 and also comprising sensing of cavitation at said target volume.

**38.** A method for lysing adipose tissue according to any of claims 25 to 27 and also comprising sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

**39.** A method for lysing adipose tissue according to any of claims 25 to 27 and also comprising sensing of cavitation at said target volume.

**40.** A method according to any of claims 25 to 39 and wherein said ultrasonic energy has a frequency in a range of 50 KHz-1000 KHz.

**41.** A method according to any of claims 25 to 39 and wherein said ultrasonic energy has a frequency in a range of 100 KHz-500 KHz.

**42.** A method according to any of claims 25 to 39 and wherein said ultrasonic energy has a frequency in a range of 100 KHz-300 KHz.

**43.** A method according to any of claims 25 to 42 and also comprising modulating said ultrasonic energy wherein said modulating provides a duty cycle between 1:2 and 1:250.

**44.** A method according to any of claims 25 to 42 and also comprising modulating said ultrasonic energy wherein said modulating provides a duty cycle between 1:5 and 1:30.

**45.** A method according to any of claims 25 to 42 and also comprising modulating said ultrasonic energy wherein said modulating provides a duty cycle between 1:10 and 1:20.

**46.** A method according to any of claims 43 to 45 and wherein said modulating provides between 2 and 1000 sequential cycles at an amplitude above a cavitation threshold.

**47.** A method according to any of claims 43 to 45 and wherein said modulating provides between 25 and 500 sequential cycles at an amplitude above a cavitation threshold.

**48.** A method according to any of claims 43 to 45 and wherein said modulating provides between 100 and 300 sequential cycles at an amplitude above a cavitation threshold.

**49.** A method according to any of claims 43 to 48 and wherein said modulating comprises modulating the amplitude of said ultrasonic energy over time.

**50.** A method for lysing adipose tissue comprising the steps of:

defining a region in a body at least partially by detecting spatial indications on said body;

directing ultrasonic energy at a multiplicity of target volumes within said region, which target volumes contain adipose tissue, thereby to selectively lyse said adipose tissue in said target volumes and generally not lyse non-adipose tissue in said target volumes.

**51.** A method for lysing adipose tissue according to claim 50 and wherein said directing includes directing focused ultrasonic energy at a multiplicity of target volumes in a time sequence.

**52.** A method for lysing adipose tissue according to claim 50 and wherein said directing includes directing focused ultrasonic energy at plural ones of said multiplicity of target volumes at times which at least partially overlap.

**53.** A method for lysing adipose tissue according to claim 50 or claim 51 and wherein at least some of said multiplicity of target volumes at least partially overlap in space.

**54.** A method for lysing adipose tissue according to any of claims 50 to 53 and also comprising defining said region by marking at least one surface of said body.

**55.** A method for lysing adipose tissue according to claim 54 and also comprising defining said region by selecting at least one depth in said body.

**56.** A method for lysing adipose tissue according to claim 54 and also comprising defining said region by detecting adipose tissue in said body.

**57.** A method for lysing adipose tissue according to claim 56 and also comprising defining said region by detecting non-lysed adipose tissue.

**58.** A method for lysing adipose tissue according to claim 57 and wherein said directing also comprises defining said target volumes as unit volumes of non-lysed adipose tissue within said region.

**59.** A method for lysing adipose tissue according to claim 58 and also comprising modulating said ultrasonic energy so as to selectively lyse said adipose tissue in said multiplicity

of target volumes proceeds sequentially in time wherein selective lysis of adipose tissue in each target volume takes place only following detection of non-lysed adipose tissue therein.

**60.** A method for lysing adipose tissue according to claim 56 and wherein said directing also comprises defining said target volumes as unit volumes of adipose tissue within said region.

**61.** A method for lysing adipose tissue according to claim 60 and also comprising modulating said ultrasonic energy so as to selectively lyse said adipose tissue in said multiplicity of target volumes proceeds sequentially in time wherein selective lysis of adipose tissue in each target volume takes place only following detection of adipose tissue therein.

**62.** A method for lysing adipose tissue according to any of claims 50 to 61 and also comprising computerized tracking of said multiplicity of target volumes notwithstanding movement of said body.

**63.** A method for lysing adipose tissue according to claim 62 and wherein said computerized tracking includes sensing changes in the position of markings on said body and employing sensed changes for tracking the positions of said target volumes in said body.

**64.** A method for lysing adipose tissue comprising the steps of directing ultrasonic energy at a multiplicity of target volumes within said region, which target volumes contain adipose tissue, thereby to selectively lyse said adipose tissue in said target volumes and generally not lyse non-adipose tissue in said target volumes; and

computerized tracking of said multiplicity of target volumes notwithstanding movement of said body.

**65.** A method for lysing adipose tissue according to claim 64 and wherein said computerized tracking includes sensing changes in the position of markings on said body and employing sensed changes for tracking the positions of said target volumes in said body.

**66.** Apparatus for lysing adipose tissue comprising:

a focused ultrasonic energy director, directing focused ultrasonic energy at a target volume in a region of a body containing adipose tissue; and

a modulator, cooperating with said energy director to produce a focused ultrasonic energy so as to selectively lyse said adipose tissue in said target volume and generally not lyse non-adipose tissue in said target volume.

**67.** Apparatus for lysing adipose tissue according to claim 66 and wherein said director generally prevents lysis of tissue outside of said target volume.

**68.** Apparatus for lysing adipose tissue according to claim 66 or claim 67 and also comprising:

an ultrasonic imager providing ultrasonic imaging of said region at least partially concurrently with directing said focused ultrasonic energy at said target volume.

**69.** Apparatus for lysing adipose tissue according to any of claims 66 to 68 and wherein said director comprises a positioner, positioning at least one ultrasonic transducer relative to said body in order to direct said focused ultrasonic energy at said target volume.

**70.** Apparatus for lysing adipose tissue according to any of claims 66 to 68 and wherein said director varies the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

**71.** Apparatus for lysing adipose tissue according to claim 70 and wherein varying the focus changes the volume of said target volume.

**72.** Apparatus for lysing adipose tissue according to claim 70 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

**73.** Apparatus for lysing adipose tissue according to claim 68 and wherein said director positions at least one ultrasonic transducer relative to said body in order to direct said focused ultrasonic energy at said target volume.

**74.** Apparatus for lysing adipose tissue according to claim 68 and wherein said director varies the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

**75.** Apparatus for lysing adipose tissue according to claim 74 and wherein varying the focus changes the volume of said target volume.

**76.** Apparatus for lysing adipose tissue according to claim 74 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

**77.** Apparatus for lysing adipose tissue according to any of claims 66 to 76 and also comprising a sensor, sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

**78.** Apparatus for lysing adipose tissue according to any of claims 66 to 76 and also comprising a sensor, sensing of cavitation at said target volume.

**79.** Apparatus for lysing adipose tissue according to claim 68 and also comprising a sensor, sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

**80.** Apparatus for lysing adipose tissue according to claim 68 and also comprising a sensor, sensing of cavitation at said target volume.

**81.** Apparatus according to any of claims 66 to 80 and wherein said director comprises an ultrasonic transducer located outside of the body.

**82.** Apparatus according to any of claims 66 to 81 and wherein said ultrasonic energy has a frequency in a range of 50 KHz-1000 KHz.

**83.** Apparatus according to any of claims 66 to 81 and wherein said ultrasonic energy has a frequency in a range of 100 KHz-500 KHz.

**84.** Apparatus according to any of claims 66 to 81 and wherein said ultrasonic energy has a frequency in a range of 150 KHz-300 KHz.

**85.** Apparatus according to any of claims 66 to 84 and wherein said modulator provides a duty cycle between 1:2 and 1:250.

**86.** Apparatus according to any of claims 66 to 84 and wherein said modulator provides a duty cycle between 1:5 and 1:30.

**87.** Apparatus according to any of claims 66 to 84 and wherein said modulator provides a duty cycle between 1:10 and 1:20.

**88.** Apparatus according to any of claims 66 to 87 and wherein said modulator provides between 2 and 1000 sequential cycles at an amplitude above a cavitation threshold.

**89.** Apparatus according to any of claims 66 to 87 and wherein said modulator provides between 25 and 500 sequential cycles at an amplitude above a cavitation threshold.

**90.** Apparatus according to any of claims 66 to 87 and wherein said modulator provides between 100 and 300 sequential cycles at an amplitude above a cavitation threshold.

**91.** Apparatus according to any of claims 66 to 90 and comprising a modulator wherein said modulator modulates the amplitude of said ultrasonic energy over time.

**92.** Apparatus for lysing adipose tissue comprising:

a source outside a body generating ultrasonic energy;

an ultrasonic energy director, which employs said ultrasonic energy to selectively generally lyse adipose tissue and generally not lyse non-adipose tissue in a target volume of a body containing adipose tissue.

**93.** Apparatus for lysing adipose tissue according to claim 92 and wherein said director generally prevents lysis of tissue outside of said target volume.

**94.** Apparatus for lysing adipose tissue according to claim 92 or claim 93 and also comprising:

an ultrasonic imager, providing ultrasonic imaging of said region at least partially concurrently with directing said ultrasonic energy at said target volume.

**95.** Apparatus for lysing adipose tissue according to any of claims 92 to 94 and wherein said director comprises positioning at least one ultrasonic transducer relative to said body in order to direct said ultrasonic energy at said target volume.

**96.** Apparatus for lysing adipose tissue according to any of claims 92 to 94 and wherein said director varies the focus of at least one ultrasonic transducer in order to direct said ultrasonic energy at said target volume.

**97.** Apparatus for lysing adipose tissue according to claim 96 and wherein varying the focus changes the volume of said target volume.

**98.** Apparatus for lysing adipose tissue according to claim 96 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

**99.** Apparatus for lysing adipose tissue according to claim 94 and wherein said director positions at least one ultrasonic transducer relative to said body in order to direct said focused ultrasonic energy at said target volume.

**100.** Apparatus for lysing adipose tissue according to claim 94 and wherein said director comprises varying the focus of at least one ultrasonic transducer in order to direct said focused ultrasonic energy at said target volume.

**101.** Apparatus for lysing adipose tissue according to claim 98 and wherein varying the focus changes the volume of said target volume.

**102.** Apparatus for lysing adipose tissue according to claim 98 and wherein varying the focus changes the distance of said target volume from said at least one ultrasonic transducer.

**103.** Apparatus for lysing adipose tissue according to any of claims 92 to 102 and also comprising a sensor, sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

**104.** Apparatus for lysing adipose tissue according to any of claims 92 to 102 and also comprising a sensor, sensing of cavitation at said target volume.

**105.** Apparatus for lysing adipose tissue according to claim 94 and also comprising a sensor, sensing ultrasonic energy coupling to an external surface of said body adjacent said target volume.

**106.** Apparatus for lysing adipose tissue according to claim 94 and also comprising a sensor, sensing of cavitation at said target volume.

**107.** Apparatus according to any of claims 92 to 106 and wherein said ultrasonic energy has a frequency in a range of 50 KHZ-1000 KHZ.

**108.** Apparatus according to any of claims 92 to 106 and wherein said ultrasonic energy has a frequency in a range of 100 KHZ-500 KHZ.

**109.** Apparatus according to any of claims 92 to 106 and wherein said ultrasonic energy has a frequency in a range of 150 KHZ-300 KHZ.

**110.** Apparatus according to any of claims 92 to 109 and also comprising a modulator wherein said modulator provides a duty cycle between 1:2 and 1:250.

**111.** Apparatus according to any of claims 92 to 109 and also comprising a modulator wherein said modulator provides a duty cycle between 1:5 and 1:30.

**112.** Apparatus according to any of claims 92 to 109 and also comprising a modulator wherein said modulator provides a duty cycle between 1:10 and 1:20.

**113.** Apparatus according to any of claims 110 to 112 and wherein said modulator provides between 2 and 1000 sequential cycles at an amplitude above a cavitation threshold.

**114.** Apparatus according to any of claims 110 to 112 and wherein said modulator provides between 25 and 500 sequential cycles at an amplitude above a cavitation threshold.

**115.** Apparatus according to any of claims 110 to 112 and wherein said modulator provides between 100 and 300 sequential cycles at an amplitude above a cavitation threshold.

**116.** Apparatus according to any of claims 110 to 115 and wherein said modulator comprises modulator the amplitude of said ultrasonic energy over time.

**117.** Apparatus for lysing adipose tissue comprising the steps of:

a region definer, defining a region in a body at least partially by detecting spatial indications on said body; and

a director, directing ultrasonic energy at a multiplicity of target volumes within said region, which target volumes contain adipose tissue thereby to selectively lyse said adipose tissue in said target volumes and generally not lyse non-adipose tissue in said target volumes.

**118.** Apparatus for lysing adipose tissue according to claim 117 and wherein said director directs focused ultrasonic energy at said multiplicity of target volumes in a time sequence.

**119.** Apparatus for lysing adipose tissue according to claim 117 and wherein said director directs focused ultrasonic energy at plural ones of said multiplicity of target volumes at times which at least partially overlap.

**120.** Apparatus for lysing adipose tissue according to any of claims 117 to 119 and wherein at least some of said multiplicity of target volumes at least partially overlap in space.

**121.** Apparatus for lysing adipose tissue according to any of claims 117 to 120 and wherein said definer employs marking at least one surface of said body.

**122.** Apparatus for lysing adipose tissue according to claim 121 and wherein said definer also employs selection of at least one depth in said body.

**123.** Apparatus for lysing adipose tissue according to claim 121 and wherein said definer detects adipose tissue in said body.

**124.** Apparatus for lysing adipose tissue according to claim 123 and wherein said definer defines said region at least partially by detecting non-lysed adipose tissue.

**125.** Apparatus for lysing adipose tissue according to claim 124 and wherein said director also defines said target volumes as unit volumes of non-lysed adipose tissue within said region.

**126.** Apparatus for lysing adipose tissue according to claim 125 and wherein said director proceeds sequentially in time wherein selective lysis of adipose tissue in each target volume takes place only following detection of non-lysed adipose tissue therein.

**127.** Apparatus for lysing adipose tissue according to claim 123 and wherein said director also defines said target volumes as unit volumes of adipose tissue within said region.

**128.** Apparatus for lysing adipose tissue according to claim 127 and wherein said director proceeds sequentially in time wherein selective lysis of adipose tissue in each target volume takes place only following detection of adipose tissue therein.

**129.** Apparatus for lysing adipose tissue according to any of claims 117 to 128 and also comprising computerized tracking functionality providing computerized tracking of said multiplicity of target volumes notwithstanding movement of said body.

**130.** Apparatus for lysing adipose tissue according to claim 129 and wherein said computerized tracking functionality is operative to sense changes in the position of markings on said body and to employ sensed changes for tracking the positions of said target volumes in said body.

**131.** Apparatus for lysing adipose tissue comprising:

a director, directing ultrasonic energy at a multiplicity of target volumes within said region, which target volumes contain adipose tissue, thereby to selectively lyse said adipose tissue in said target volumes and generally not lyse non-adipose tissue in said target volumes; and

computerized tracking functionality providing computerized tracking of said multiplicity of target volumes notwithstanding movement of said body.

**132.** Apparatus for lysing adipose tissue according to claim 131 and wherein said computerized tracking functionality is operative to sense changes in the position of markings on said body and to employ sensed changes for tracking the positions of said target volumes in said body.

\* \* \* \* \*

专利名称(译)	无创超声波身体轮廓		
公开(公告)号	<a href="#">US20040106867A1</a>	公开(公告)日	2004-06-03
申请号	US10/250955	申请日	2001-12-31
[标]申请(专利权)人(译)	埃莎尔约拉姆 VITSNUDEL ILIA		
申请(专利权)人(译)	埃莎尔约拉姆 VITSNUDEL ILIA		
当前申请(专利权)人(译)	ULTRASHAPE INC.		
[标]发明人	ESHEL YORAM VITSNUDEL ILIA		
发明人	ESHEL, YORAM VITSNUDEL, ILIA		
IPC分类号	A61B18/00 A61B8/08 A61B17/00 A61B19/00 A61N7/00 A61N7/02 A61B17/22		
CPC分类号	A61B8/08 A61B17/225 A61B19/5212 A61B19/5244 A61B19/56 A61B2017/00022 A61N2007/0008 A61B2017/2253 A61B2019/5265 A61B2019/5272 A61B2019/5276 A61B2019/5437 A61N7/00 A61B2017/00084 A61B34/20 A61B34/25 A61B90/361 A61B2034/2065 A61B2034/2072 A61B2090/378 A61B2090/3937		
优先权	10/021238 2001-10-29 US 09/752530 2001-01-03 US		
外部链接	<a href="#">Espacenet</a> <a href="#">USPTO</a>		

摘要(译)

用于裂解脂肪组织的方法和系统，包括在该区域内的多个目标体积处引导超声能量，该目标体积包含脂肪组织，从而选择性地裂解目标体积中的脂肪组织并且通常不裂解该脂肪组织中的非脂肪组织。目标体积和计算机化跟踪多个目标体积，尽管身体运动。

